



The Town of Niagara-On-The-Lake

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Report: OPS-19-003 **Committee Date:** February 04, 2019

Due in Council: February 11, 2019

Report To: Operations Advisory Committee
Subject: Region of Niagara 2020 Waste Collection Contract -
Proposed Changes and Niagara-on-the-Lake Enhanced Collection Service

1. RECOMMENDATION

It is respectfully recommended:

- 1.1 that Council receive this report;
- 1.2 that the recommendations approved by the Niagara Region included within this report be endorsed, except for the elimination of scrap metal pick up;
- 1.3 that the Niagara Region propose an alternative service delivery for scrap metal pick up;
- 1.4 that Council support the recommendations regarding the enhanced system put forth by the Niagara-on-the-Lake Chamber of Commerce regarding the businesses in the Heritage District:
 - a) change the pick up time from 9:00 a.m. to 10:00 a.m.
 - b) do not discontinue the disposal of appliances and scrap metal curbside;
 - c) there should be consideration of pooling limits for all businesses;
 - d) retain the current enhancement services provided

2. PURPOSE / PROPOSAL

The Region of Niagara oversees all aspects of Waste Management for the Local Area Municipalities (LAM).

This includes, but is not limited to, curbside collection of waste, recycling and organics collection as well as the disposal of these materials (Landfill sites, household hazard waste, recycling facility and organic processing locations).

The annual cost for the Region's Waste Management is charged back to the LAM's based on the municipality's percentage of the total Regional households. For Niagara-on-the-Lake, the 2018 waste management charge was \$1,479,607.00.

3. BACKGROUND

At their meeting of January 8, 2019 the Region's Public Works Committee approved Report PW 3-2019, as amended, and approved the following base level service options;

1. That, based on the results of the stakeholder engagement process, the Request for Proposals for Niagara Region's next garbage, recycling and organics collection RFP
BE APPROVED to be issued with the following, subject to final comments from Local Area Municipalities:
 - a. Pricing for the following garbage collection frequency options:
 - i. Every-other-week (EOW) garbage collection for all residential properties and for those Industrial, Commercial & Institutional (IC&I) and Mixed-Use (MU) properties located outside Designated Business Areas (DBAs), as a base service (weekly recycling and organics to continue, and current garbage container (bag/can) limits would double for affected sectors, on an EOW basis); and,
 - ii. Status quo-weekly base garbage collection service.
 - b. Establishment of a four (4) item limit per residential unit, per collection, for large item collection at Low-Density Residential (LDR) properties, as base service;
 - c. Discontinuation and continuation of appliances and scrap metal curbside collection at LDR properties, as a base service;
 - d. Change the weekly garbage container (bag/can) limits for Industrial, Commercial & Institutional (IC&I) and Mixed-Use (MU) properties located inside Designated Business Areas (DBAs) from seven (7) containers to four (4) containers per property, as a base service;
 - e. Change the weekly garbage container limit for MU properties located outside DBAs from six (6) containers to four (4) containers per property, as a base service;
 - f. Mandatory use of clear garbage bags for garbage collection;
2. The Region is preparing for a new collection contract that will go out for RFP in 2019, and be awarded in 2020 with a start time in 2021. Prior to the approval of the new contract and its proposed changes, the Region has been consulting with Niagara residents, businesses, the local municipalities and other stakeholders.

As noted above, final comments by the local municipalities to the Region are required by February 20, 2019 in order to achieve their proposed tender award scheduled for 2020.

4. DISCUSSION/ANALYSIS

1. Proposed Options for 2021 Collection Contract

The above approved base service level options being considered by the Niagara Region include:

a. Approved

Every-other week (EOW) garbage collection for all residential properties and for Industrial, Commercial and Institutional (IC&I) and Mixed-Use (MU) properties (i.e.: IC&I with a residential component) located outside Designated Business Areas (DBA), or the Downtown Improvement Area (DIA) for the Town of Niagara-on-the-Lake. Current garbage container limits would double for all properties, on an EOW basis. The recycling and organic bin collection for all properties shall remain weekly collection as a base service.

Weekly garbage, recycling and organics collection would remain for all IC&I and MU properties located inside DBA's as a base service.

Many Ontario municipalities (i.e.: Barrie, Durham, Halton, Markham, Ottawa, Toronto, Vaughn, Peel and Waterloo) already provide EOW garbage collection.

The benefits of EOW garbage collection include:

- Increased participation/capture rates in diversion programs (i.e.: recycling and organics) to extend lifespan of Niagara Region's landfill site. Diversion rates increased between 6% and 16% in those municipalities that implemented EOW garbage collection.
- Potential cost avoidance. Based on the Region of Waterloo's implementation of
- EOW garbage collection in 2017, their annual contract savings were approximately \$1.5 million.

ii) Status Quo - weekly base garbage collection service.

b. Approved

The establishment of a four (4) item limit per residential unit, per collection, for large item collection at Low-Density Residential (LDR) properties (i.e.: 1 to 6 residential units) as a base service. Currently, there is no limit on the number of large items that can be set out per residential unit, per collection. The proposed four-item limit will meet the set-out needs, as most residents set out an average of less than two (2) items per collection.

c. Approved

Mandatory use of clear bags for garbage with optional opaque privacy bag (i.e.: grocery bag) within the clear bag for all sectors.

The intent of this change is to improve source separation (and waste diversion

rates) and increase enforcement/awareness of what is placed inside the garbage bag by allowing the collection person to identify recycling, organics and unacceptable materials in the bag and then not picking up that bag.

The Town's DIA has objected this change.

However, recent concerns about plastic bags are seen by the Region as beneficial to make a positive step to take plastic bags out of our waste stream.

d. Approved

Discontinue appliances and scrap metal curbside collection. These items can be recycled, at no cost, at Niagara Region's Drop-off Depots, or at a scrap metal dealer. Only 6% of Niagara's LDR properties are currently using the curbside collection of appliances and scrap metal. Many of these items are scavenged before the Region's collection contractor is able to collect them.

- e. Change the garbage container limits for IC&I and MU properties located inside DBA's from seven (7) bags/containers to four (4) bags/containers per property, as a base service. This would standardize the base collection limits across similar sectors as well as increase participation in the Region's diversion programs. The average number of garbage containers placed out per week at IC*I and MU properties inside DBA's across the region is two (2).

For Niagara-on-the-Lake (enhanced collection area) this includes Queen St. Businesses and surrounding areas. The Town currently pays approximately \$76,603.00 per year for the DIA to have a second 12 bag/container pick-up day per week and for the additional five (5) bags for the first pick-up day, as well as an additional recycling collection day. The DIA indicated to the Region that they do not endorse this bag/container reduction per pick-up day.

The Regions historic audits for the Niagara-on-the-Lake DIA " Appendix A" indicates the average number of garbage containers set out in the DIA is less than three (3) bags per pick-up day verses the 12 bags allowed. As the Town pays the cost of 12 garbage bags/containers for each day (even if not used) and the Regions audit average is less than three (3), it would potentially be cost effective for the Town to consider keeping the enhanced twice-a-week collection, but reducing the number of bags/containers from 24 per week (12 per collection day) to 12 per week (six (6) per collection day). This would reduce the Town's cost from 17 extra charge bags per week to eight (8) extra charge bags/containers per week.

- f. Change the weekly garbage container limits for MU properties located outside the DBAs from six (6) to four (4), or eight (8) containers under EOW garbage collection. This would standardize the base collection limits across similar sectors, as well as increase participation in the Region's diversion programs. The average number of garbage containers placed out per week at MU properties outside DBAs across the region is two (2).

Based on discussion with the Region, changes three (3) and five (5) to seven (7) inclusive, are based on audits of actual numbers of large items/appliances or bags/containers actually put out and should have little to no impact to users, but will provide a reduction in the quantities to be tendered in the 2021 contract.

The DIA has requested that the enhanced Thursday pick-up be changed to Friday in the new contract, which is highly recommended, as this will provide more balanced periods between pick-ups (from two and five to three and four days).

The Town also includes in the enhanced service for our on-street litter and recycling bins pick-up and disposal by the Region's garbage contractor, which is very economical, as the contractor includes them in his normal pick-up route when passes by them. In the current contract, the Town pays about \$7,000 per year for this collection and disposal work.

2. The Chamber of Commerce has been in contact with the Region regarding the Regional waste contract. The Chamber has concerns about waste metal pick-up. They have expressed their desire to retain the current enhancement services, with a start time of 10am, not 9am, to dissuade merchants from placing garbage on the street the night before. The Chamber asked for consideration of pooling of limits. They also inquired as to the price and if it would increase. The Region has not provided the 2019 or future rate.

The merchants pay for the basic waste charge (\$172.81 for 2018 rate) plus enhanced service (\$814.93 in 2018) a total of 94 businesses are paying for this.

5. STRATEGIC PLAN

n/a

6. OPTIONS

n/a

7. FINANCIAL IMPLICATIONS

Overall, if accepted by Regional Council, the proposed base service changes will help reduce Waste Management costs in the new collection tender to the LAMs and our taxpayers.

Other municipalities that implemented EOW garbage collection realized annual contract savings between \$200,000 and \$12 million, depending on the size of their contract and other contract changes that were implemented. For example, Region of Waterloo's annual contract savings by switching over to EOW garbage collection was \$1.5 million.

The 2018 enhanced Collection Services to the Town were \$18,000 plus litter bins

collection of \$7,000. Additional costs would be incurred for the new enhanced service for bulky goods collection to those households in MR buildings with seven (7) or more residential units and MU properties with one (1) or more residential unit, that receive the Region's curbside base garbage collection or that receive the Region's enhanced front-end garbage collection service.

We should assume that the 2021 Waste Collection contract will see an overall increased cost due to inflation and wages; however, the proposed base service recommendations listed below will help reduce this increase

8. COMMUNICATIONS

N/A

9. CONCLUSION

It is recommended that the following Regional proposed collection changes to the 2021 collection contract be approved by the Town of Niagara-on-the-Lake Council:

1. That every-other-week (EOW) garbage collection be implemented for all residential properties and for those IC&I and MU properties located outside the DIA area as a base service. Current garbage container limits would double for all properties, on an EOW basis. The recycling and organic bin collection for all properties shall remain weekly collection. Those IC&I and MU properties located inside the DIA areas would continue to receive weekly garbage, recycling and organics collection as a base service.
2. That mandatory use of clear bags be approved.
3. That the establishment of a four (4) item limit per residential unit, per collection, for large item collection at LOR properties as a base service
4. That the provision of a new enhanced service for large item collection (parallel to the service approved for LOR properties) to those households in MR buildings with seven (7) or more residential units and MU properties with one (1) or more residential unit, that receive the Region's base curbside or enhanced front-end garbage collection service.
5. That the number of garbage bags/containers for IC&I and MU properties inside the DIA area be reduced from seven (7) to four (4) per week, as a base service.
6. That the Town's enhanced service and extra payment for collection inside the DIA area remain at two collection days per week, but changed to Tuesdays and Fridays and that the number of garbage bags/containers be reduced from 12 per pick-up day to six (6) per pick-up day (12 per week), resulting in the Town's enhanced service payment being reduced from 17 bags/containers per week to eight (8).
7. That the number of garbage bags/containers for MU properties outside the DIA

area be reduced from six (6) to four (4) per week, or eight (8) containers under EOW garbage collection, as a base service.

Respectfully submitted,



Jeff Vyse
Manager of Public Works



Sheldon Randall
Director of Operations



Holly Dowd
Chief Administrative Officer

ATTACHMENTS

Town of Niagara-on-the-Lake Survey Results



Town of Niagara on the Lake Survey Results.pdf

Niagara Region Presentation



PW 3-2019 Presentation - Proposed Collection Service Level.pdf



PW 3-2019 Presentation - Service Options Consultation Results.pdf

Proposed Base Services for Next Collection Contract



PW 3-2019 Proposed Base Services for Next Collection Contract.pdf

Comparison of Current vs. Proposed Base Collection Services



PWC3-2019 Appendix 1.pdf

Comparison of Current vs. Previous Enhanced Collection Services



PWC3-2019 Appendix 2.pdf

Rationale for Proposed Collection Service Options for Next Contract



PWC3-2019 Appendix 3.pdf

Stakeholder Comments on Proposed Base Collection Options



PWC3-2019 Appendix 4.pdf

Stakeholder Consultation and Engagement Process



PWC3-2019 Appendix 5.pdf

Telephone and On-line Survey Results for the Niagara Region



PWC3-2019 Appendix 8.pdf

WEB ATTACHMENTS

ATTACHMENTS FOR LINK

First Capital of Upper Canada - 1792

Town of Niagara-on-the-Lake's Low-Density Residential Responses for the Survey Questions on Proposed Collection Options for Region's Next Contract

- 1) The first option is related to large or bulky item pick up, such as carpet or furniture. The change would be to limit the number of large/bulky items collected to a maximum of four (4) per week. In 2018, 92% of the bookings for large or bulky item pick up were for four (4) items or less. If Niagara was to make this change, what would be the impact on your household?

Survey Choices	Telephone Survey n=1,253	Online Survey n=274
A big impact	17 (1.4%)	4 (1.5%)
Some impact	54 (4.3%)	18 (6.6%)
Might or might not be an impact	66 (5.3%)	29 (10.6%)
Not much of an impact	314 (25.0%)	81 (29.6%)
No impact	802 (64.0%)	142 (51.7%)

- 2) The second option under consideration would eliminate curbside pick up by Niagara Region of appliances and scrap metal. Currently, residents can go online and schedule a pick up of items at their home. Only 6% of Niagara households are using the curbside collection of appliances and scrap metal service. Also, as much as 60% of these items that are being put out have already been removed by the time crews arrive to pick them up. There would continue to be an opportunity for residents to take the items to a Regional drop-off depot, at no charge, or have it picked up by private scrap metal haulers. If Niagara Region was to make this change, what would be the impact on your household?

Survey Choices	Telephone Survey n=1,253	Online Survey n=274
A big impact	86 (6.9%)	20 (7.3%)
Some impact	115 (9.2%)	35 (12.8%)
Might or might not be an impact	115 (9.2%)	45 (16.4%)
Not much of an impact	311 (24.7%)	96 (35.0%)
No impact	626 (50.0%)	78 (28.5%)

- 3) A third option under consideration is the mandatory use of clear bags. Some municipalities in Canada have already made this change. The cost for clear bags would be about the same as green/black bags. Clear bags will make it easier to see recyclable or organic material that should be placed in the Blue/Grey Box or Green Bin or Hazardous Waste items that should be disposed of safely. A smaller opaque bag, such as a grocery bag, can be placed inside the clear garbage bag for disposing of sensitive or personal items. Would you support a switch to clear garbage bags?

Survey Choices	Telephone Survey n=1,253	Online Survey n=274
Definitely <u>would</u> support	323 (25.8%)	45 (16.4%)
Probably <u>would</u> support	279 (22.3%)	45 (16.4%)
Might or might not support	180 (14.4%)	48 (17.5%)
Probably <u>would not</u> support	171 (13.6%)	35 (12.8%)
Definitely <u>would not</u> <u>support</u>	300 (23.9%)	101 (36.9%)

- 4) In Niagara region, an average of 50% of every garbage bag is food waste. A fourth option under consideration that is already in practice in many other municipalities, which encourages residents to use their Green Bin, is to pick up garbage every-other-week, but continue unlimited Blue/Grey Boxes and Green Bins every week. There would be no change or reduction in the garbage container limit, but there would be less frequent pick up. With collection every-other-week, you would be allowed two (2) garbage bags/containers. Based on your household's waste practices, would you:

Survey Choices	Telephone Survey n=1,253	Online Survey n=274
Be able to manage garbage collection every-other-week	578 (46.1%)	138 (50.4%)
Need to continue having your garbage picked up weekly	675 (53.9%)	136 (49.6%)

- 5) If Niagara Region collected garbage bags every-other-week, but collected your Blue/Grey Boxes and Green Bins every week, what would be the impact on your household?

Survey Choices	Telephone Survey n=1,253	Online Survey n=274
A big impact	336 (26.8%)	79 (28.8%)
Some impact	267 (21.3%)	66 (24.1%)
Might or might not be an impact	87 (6.9%)	14 (5.1%)
Not much of an impact	239 (19.1%)	66 (24.1%)
No impact	324 (25.9%)	49 (17.9%)

- 6) If you had to choose between mandatory use of clear garbage bags, every-other-week garbage collection, or the use of both, which would you choose?

Survey Choices	Telephone Survey n=1,253	Online Survey n=274
Clear garbage bags	419 (33.4%)	44 (16.1%)
Every-other-week garbage collection	334 (26.7%)	101 (36.9%)
Both clear garbage bags and every-other week garbage collection	262 (20.9%)	45 (16.4%)
Neither	238 (19.0%)	84 (30.7%)

- 7) Which of the following age groups do you fall into?

Survey Choices	Telephone Survey n=1,253	Online Survey n=274
17 years or younger	0 (0.0%)	0 (0.0%)
18-24 years	17 (1.4%)	3 (1.1%)
25-34 years	72 (5.7%)	20 (7.3%)
35-44 years	163 (13.0%)	39 (14.2%)
45-54 years	235 (18.8%)	41 (15.0%)
55-64 years	384 (30.6%)	95 (34.7%)
65-74 years	215 (17.2%)	63 (23.0%)
75 years and older	167 (13.3%)	13 (4.7%)

8) Including yourself, how many people live in your household?

Survey Choices	Telephone Survey n=1,253	Online Survey n=274
1	166 (13.2%)	20 (7.3%)
2	557 (44.4%)	149 (54.4%)
3	200 (16.0%)	44 (16.1%)
4	182 (14.5%)	41 (15.0%)
5	80 (6.4%)	11 (4.0%)
6	36 (2.9%)	6 (2.2%)
7	18 (1.4%)	3 (1.1%)
8	10 (1.2%)	0 (0.0%)
9	2 (0.0%)	0 (0.0%)
10 or more	2 (0.0%)	0 (0.0%)

Summary of Niagara-on-the-Lake's DBA Audit Results

1) Base Collection

Niagara Region provides base collection services (i.e. weekly garbage, recycling, organics, etc.) to all property types, including IC&I and MU properties inside and outside DBAs, in all 12 LAMs.

The current base garbage container collection limit for IC&I and MU properties located inside and outside DBAs are, as follows:

Property Type and Location	Max. Garbage Containers per Week
IC&I properties <u>inside</u> DBAs	7
MU properties <u>inside</u> DBAs	7
IC&I properties <u>outside</u> DBAs	4
MU properties <u>outside</u> DBAs	6

Currently, Niagara-on-the-Lake only has **enhanced** collection service inside their DBA. Base collection service is provided outside the DBA.

2) Enhanced Collection

Niagara Region provides enhanced collection services, at the request of each local area municipality. Each local area municipality directly pays for the cost associated with providing the enhanced collection services. Enhanced collection services include additional garbage container limits, increased garbage or recycling collection frequency, front-end garbage and street litter pick-up.

All properties using Regional collection services inside Niagara-on-the-Lake's DBA receive **enhanced** collection. The garbage container limit for these properties is 20 garbage bags/cans per property, per collection, three times per week for a total collection limit of 60 garbage containers per week. The collection frequency and schedule is summarized in the table below.

Collection Service	Weekly Collection Frequency	Collection Days and Times
Curbside Waste	Three days-per-week (enhanced) (max. of 20 containers per property, per day)	Mon, Thurs, Sat (9:00 am)
Curbside Recycling	One day-per-week (base)	Mon (carts); Thurs (boxes) (9:00 am)
	Two days-per-week (cardboard only - enhanced)	Mon, Sat (cardboard) (9:00 am)
Curbside Organics	One day-per-week (base)	Thurs (9:00 am)

a) Audit Results for **IC&I** Properties Receiving **Enhanced** Collection Services

Two weeks of audits were conducted in July of 2018. In September, one additional week of audits was conducted at properties that set out multiple bags of garbage in tote containers, as these containers were not counted in the July audits.

There were 40 **IC&I** properties audited inside the Niagara-on-the-Lake DBA **enhanced** collection area. Of this total, an average of 30 **IC&I** properties participated in a Regional collection service and 24 of these used Regional garbage services. The average number of garbage containers set-out by **IC&I** properties was 6.0 bags/cans.

Averaged Audit Data for **IC&I** Properties Inside the Niagara-on-the-Lake DBA (**Enhanced** Collection Area)

Collection Service	Average % of Participating IC&I Properties Using Regional Collection Service Inside DBA	Average Number of Containers Per Set-Out	Average % of IC&I Properties Exceeding Weekly Garbage Container Limit (60 containers) ⁽¹⁾
Garbage	80%	6.0	17%
Recycling	57%	2.9	N/A
Organics	7%	6.0	N/A

(1) Exceedances of the weekly garbage container limit were calculated based on one week of audit data.

Of the 24 **IC&I** properties using **enhanced** Regional garbage collection inside the DBA, four (4) of these properties were setting out considerably more bags than the other 20 **IC&I** properties. These four (4) properties were responsible for all exceedances by **IC&I** properties inside the DBA and set out an average of 23.9 garbage bags per collection day. The remaining 20 properties set out an average of 2.4 garbage bags per collection day.

Comparison of Garbage Container Set-Out for IC&I Properties Exceeding and Not Exceeding the Weekly Garbage Container Limit

	Average Number of Bags/Cans Per Set-Out	Number of Properties Exceeding Garbage Container Limit on Collection Day (20 containers) ⁽¹⁾
IC&I Properties exceeding the garbage container limit (4 properties)	23.9	4
IC&I Properties not exceeding garbage container limit (25 properties)	2.4	0

(1) Property exceeded container limit on at least one collection day during 5 days of audits.

The average use of the recycling and organics programs was low for **IC&I** properties inside the DBA. In particular, those properties that exceeded the container limit were not using the organics collection service at all.

Audit Results for IC&I Properties that Exceeded Maximum Limit of 20 Garbage Cans/Bags per Collection

Address	Business Name	# Garbage Bags/Cans				Recycling ⁽¹⁾				Organics ⁽¹⁾	
		Week 1			# of Garbage Exceedances	Average # Blue Boxes Set-Out Per Week	Average # Blue Carts Set-out Per Week	Average # Grey Boxes Set-out Per Week	Average # Grey Carts Set-out Per Week	Average # Green Bins Set-out Per Week	Average # Green Carts Set-out Per Week
		Monday	Thursday	Saturday							
19 Queen St.	Corks Wine Bar and Eatery	30	22	19	2	3	1	0	0	0	0
59-61 Queen St.	Il Gelato di Carlotta and All in the Wild Gallery	32	25	18	2	0.5	0	0	0	0	0
62 Queen St.	Sunset Grill	30	28	20	2	5.5	1	1	0	0	0
84 Queen St.	The Epicurean	17	26	20	1	0.5	4	0	0	0	0
Total Exceedances					7						

(1) Recycling and organics data is average from two (2) weeks of audits (6 collection days)

b) Audit Results for MU Properties Receiving Enhanced Collection Services

Two (2) weeks of audits were conducted in July of 2018. In September, one (1) additional week of audits was conducted at properties that set out multiple bags of garbage in tote containers, as these containers were not counted in the July audits.

There were 21 **MU** properties audited inside the Niagara-on-the-Lake DBA **enhanced** collection area. Of this total, an average of 17 **MU** properties participated in a Regional collection service and all of these used Regional garbage services. The average number of garbage containers set-out by **MU** properties was 6.8 bags/cans.

Averaged Audit Data for MU Properties Inside the Niagara-on-the-Lake DBA (Enhanced Collection Area)

Collection Service	Average % of Participating MU Properties Using Regional Collection Service Inside DBA	Average Number of Containers Per Set-Out	Average % of MU Properties Exceeding Weekly Garbage Container Limit (60 containers)⁽¹⁾
Garbage	100%	6.8	12%
Recycling	59%	2.3	N/A
Organics	0%	0.0	N/A

(1) Exceedances of the weekly garbage container limit were calculated based on one week of audit data.

Of the 17 **MU** properties using **enhanced** Regional garbage collection inside the DBA, three of these properties were setting out considerably more bags than the other 14 **MU** properties. These three (3) properties were responsible for all exceedances by **MU** properties inside the DBA and set out an average of 22.8 garbage bags per collection day. The remaining 14 properties set out an average of 3.3 garbage bags per collection day.

Comparison of Garbage Set-Out for MU Properties Exceeding and Not Exceeding the Weekly Garbage Container Limit

	Average Number of Bags/Cans Per Set-Out	Number of Properties Exceeding Garbage Container Limit on Collection Day (20 containers) ⁽¹⁾
MU Properties exceeding the garbage container limit (3 properties)	22.8	3
MU Properties not exceeding the garbage container limit (14 properties)	3.3	0

(1) Property exceeded container limit on at least one collection day during 5 days of audits.

MU properties inside the DBA are underutilizing the recycling and organics programs. None of the 17 **MU** properties using Regional collection services are participating in the organics program.

Audit Results for MU Properties that Exceeded Maximum Limit of 20 Garbage Cans/Bags per Collection

Address	Business Name	# Garbage Bags/Cans				Recycling ⁽¹⁾				Organics ⁽¹⁾	
		Week 1			# of Garbage Exceedances	Average # Blue Boxes Set-Out Per Week	Average # Blue Carts Set-out Per Week	Average # Grey Boxes Set-out Per Week	Average # Grey Carts Set-out Per Week	Average # Green Bins Set-out Per Week	Average # Green Carts Set-out Per Week
		Monday	Thursday	Saturday							
10 Queen St.	Orzo Restaurant	21	34	24.8	3	0.5	0	0.5	0	0	0
92 Queen St.	Shaw Café and Wine Bar	27	27	22.5	3	1	0	0.5	3	0	0
223 King St.	Balzac's	22	16	11	2	3	0	1.5	0	0	0
Total Exceedances					8						

(1) Recycling and organics data is average from two weeks of audits (6 collection days)

Proposed Collection Service Options for Niagara Region's Next Collection Contract

Public Works Committee Meeting

January 8, 2019

Proposed Collection Service Options

- Background
- Rationale for Options
- Base Garbage Collection Service Options
- Targeted Stakeholder Consultation
- Broad-Based Stakeholder Consultation
- Recommendations



Background

- Niagara Region's next garbage, recycling and organics collection contract is set to begin by March 8, 2021.
- Provides an opportunity to complete a service delivery review to improve program effectiveness (i.e. increase diversion) and efficiencies (i.e. mechanisms to reduce or avoid costs).
- On April 12, 2018, Regional Council approved proposed base collection services to be included in the stakeholder consultation and engagement process.
- Purpose of the report is to seek Council's approval of the proposed base collection services being recommended for inclusion in Niagara Region's next collection RFP, based on the results of input received during the stakeholder consultation and engagement phase, subject to input from LAMs.

Rationale for Options

- Standardize garbage container (bag/can) limits across all Industrial, Commercial, and Institutional (IC&I) and Mixed-Use (MU) properties, which use the Region's base curbside garbage collection service;
- Increase participation in Region's diversion programs;
- Results of curbside audits and other collection monitoring/measurements, which illustrate service usage/need;
- Improve program communication and services provided to residents and businesses; and
- Best practices and/or major trends in Niagara's 13 municipal comparators (e.g. every-other-week garbage collection).

Base Garbage Collection Service Options

- 1) Every-other-week (EOW) garbage collection for **all sectors outside DBAs**, as a **base** service:
 - Weekly collection of recycling and organics to continue
 - Garbage container limit for all properties would double and/or
- 2) Mandatory use of clear bags for garbage, with the option of allowing an opaque privacy bag to be placed inside the clear bag:
 - The clear bag program will be for **all sectors (both inside and outside DBAs)**, as a **base** service.

Key Drivers – EOW Garbage and Clear Bags

- extend existing landfill site capacity;
- contract cost avoidance (EOW garbage collection);
- increase participation and capture rates in diversion programs:
 - *Nearly 50% of low density residential garbage is organic waste and only 48% use the residential Green Bin program*
 - *IC&I and MU audits show diversion programs underutilized*



Base Garbage Collection Service Options

- 3) Establishment of a 4 item limit per residential unit, per collection, for large item collection at LDR properties, as a **base** service.
- 4) Discontinuation of appliances and scrap metal collection at LDR properties.

Key drivers: Contract cost avoidance for services with limited usage.

- *99% of properties using the large item service set out 4 items or less and 92% of the total bookings were for 4 or less items*
- *Appliances and scrap metal:*
 - *Tonnages have decreased by 94% since 2007*
 - *Items can be recycled, at no cost, at the Region's Drop-off Depots, or by scrap metal haulers/dealers*
 - *Only 6% of properties are using the service*

Base Garbage Collection Service Options

- 5) Change the weekly garbage container limits for IC&I and MU properties located inside DBAs from 7 containers to 4 containers per property, as a base service.
- 6) Change the weekly garbage container limit for MU properties located outside DBAs from 6 containers to 4 containers per property, as a base service.

Key Drivers: Standardize base garbage collection limits across similar sectors to improve service delivery and program communication, increase participation and capture rates in diversion programs, potentially avoid contract costs for a service level, which is not needed.

- *Average number of garbage containers placed out per week:*
 - *IC&I and MU properties inside the DBA is 2.1 and 2.0*
 - *MU properties outside the DBA is 2.4*

Targeted Stakeholder Consultation

Stakeholders	Consultation Activities and Comment
Regional Departments and ABCs	<ul style="list-style-type: none">• Planning and Development Services Department noted the proposed options align with and support policy 4.2.9.1 d) i) of the Growth Plan, which relates to waste management; also reviewed the proposed container limit changes pertaining to MU properties inside and outside DBAs and anticipate that smaller MU developments would not be affected by the proposed change in container limits.• Economic Development indicated their work generally revolves around larger industrial companies, which would not use the Region's curbside garbage collection service, and would not be impacted by the proposed collection options.• Niagara Regional Housing did not support of EOW garbage collection, or mandatory use of clear bags for garbage
Waste Management Advisory Committee	<ul style="list-style-type: none">• Supported all proposed options

Targeted Stakeholder Consultation

Stakeholders	Consultation Activities and Comment
<ul style="list-style-type: none"> • Business Improvement Associations • Chambers of Commerce • Niagara Industrial Association • Venture Niagara 	<ul style="list-style-type: none"> • 15 meetings held in Aug. / Sept. • 2 follow-up emails requesting feedback and letters sent for distribution to members with proposed options, link to survey, open house/community booth info etc. • Six organizations provided comment, of which only Pelham Business Association supported the proposed DBA options
<ul style="list-style-type: none"> • Destination Marketing Organizations (DMOs) 	<ul style="list-style-type: none"> • Met with Tourism Niagara on behalf of 5 DMOs in Sept. • Letter - Sept. 18 for each tourism agency describing proposed options, audit data, info about survey and public events etc. • Follow-up email with link to project website, survey and request for feedback • No comment received

Broad Based Stakeholder Consultation

Medium	Outreach Description
Letters	<ul style="list-style-type: none">1,369 businesses <u>inside</u> Designated Business Areas (DBAs); 1,980 businesses <u>outside</u> DBAs; 125 multi-residential properties Oct 22Contained proposed options, link to survey, open house/community booth info and invitation to contact Region
Web	<ul style="list-style-type: none">Project webpage on Niagara Region website and webpage banner Oct 23 to Nov 30
	<ul style="list-style-type: none">LAM provided with P&E for websites that had link to project webpage Oct 22
Social Media	<ul style="list-style-type: none">Facebook paid advertisement with link to project webpage; Twitter post on Niagara Region Twitter with link to project webpage; Facebook posts with details Oct 25 - Nov 28

Broad Based Stakeholder Consultation

Medium	Outreach Description
Newspaper: Print Ads Invitation to participate in stakeholder consultation with link to project webpage	<ul style="list-style-type: none"> Niagara This Week Oct 25, Nov 1,8,15,22
	<ul style="list-style-type: none"> St. Catharines Standard Oct 27, Nov 10
	<ul style="list-style-type: none"> Welland Tribune, Niagara Falls Review Nov 3
	<ul style="list-style-type: none"> News Now Nov 15, Nov 22
Newspaper: Online Ads (same content as print ads)	<ul style="list-style-type: none"> 24 hour ad - St. Catharines Standard, Welland Tribune, N.F. Review websites Oct 30, Nov 6,13, 20
	<ul style="list-style-type: none"> 24 hour ad - Niagara This Week website Nov 24
	<ul style="list-style-type: none"> 1 week ad - News Now website Nov 22-29
	<ul style="list-style-type: none"> 2 week ad - Niagara Independent website Nov 19-30
	<ul style="list-style-type: none"> Big Box Takeover- St. Catharines Standard, Welland Tribune, N.F. Review Oct 30, Nov 5,11,20

Broad Based Stakeholder Consultation

Medium	Outreach Description
Media Coverage Overview of proposed options and rationale. Reference to project webpage, survey and events	<ul style="list-style-type: none">• Media release Oct 24• Radio interview on 610 CKTB Newstalk Nov 5• Television coverage on Cogeco YourTV; accessible online and aired daily on YourTV Nov 5-30• Articles - St. Catharines Standard/Niagara Falls Review, Voice of Pelham, Erie Media Oct 28, Nov 5, 7, 23
Post Cards Invitation to participate in consultation. List of key options and link to survey/webpage	<ul style="list-style-type: none">• 100-200 post cards available at each Local Area Municipal office and Regional HQ and landfill sites; distributed at every community booth and open house Oct 23 –Nov 30

Broad Based Stakeholder Consultation

Method	Responses
On-line Survey - Closed midnight, November 30, 2018	<ul style="list-style-type: none"> • LDR: 6,639 completed • MR: 38 completed • IC&I and MU: 166 completed
Random Telephone Survey – Completed December 7, 2018	<ul style="list-style-type: none"> • LDR only: 1,253 completed
Community Booths - Oct 30 –Nov 26 Table and poster boards with proposed options. Attendees completed on-line surveys and staff responded to questions and comments.	<ul style="list-style-type: none"> • One booth in each LAM • In malls, arenas, community centres and libraries • Approx. 450 visitors in total at booths
Open Houses - Various dates from Nov 1-Nov 28 Presentation with question and answer period. Attendees completed on-line surveys and staff responded to questions and comments.	<ul style="list-style-type: none"> • One open house in each LAM • Total of 67 attendees

Broad Based Stakeholder Consultation

Method	Responses
Facebook Comments Comments posted through Niagara Region's Facebook advertisement were responded to by staff and tracked	<ul style="list-style-type: none">• 1,467 comments were posted between Oct. 25 and Nov. 30
Waste Info-Line Calls, Emails and Web Submissions	<ul style="list-style-type: none">• 36 comments were recorded between Oct. 29 and Nov. 28• 2 additional comments were received in June
Additional Email, Phone Call and In-Person Comments Emails, calls and comments provided in-person from residents and business owners that did not provide an address but requested a response were recorded.	<ul style="list-style-type: none">• 20 comments received between Oct. 26 and Dec. 2• 7 additional calls received in June

Recommendations

Based on results of the stakeholder engagement and consultation process, the following key recommendations are being made, for LAM comment:

- a) Include Pricing for EOW Garbage Collection
 - best practices and experience with EOW garbage collection in Niagara's municipal comparator group and the potential for significant cost avoidance and increased diversion

Recommendations

b) Four-Item Limit on Large Items, per Collection

- reflects actual usage statistics and responses from a majority of survey respondents

c) Discontinuation of Appliances and Scrap Metal Collection

- reflects actual usage statistics and responses from a majority of survey respondents

d) Change Weekly IC&I and MU Base Garbage Container Limits Inside DBAs

- based on actual usage statistics and responses from a majority of base service user on-line survey respondents, although 5 organizations representing DBAs did not support and 1 supported this change

Recommendations

- e) Change Weekly MU Base Garbage Container Limits Outside DBAs
- based on actual usage statistics and to achieve a standardized base collection service across all similar sectors (in combination with option d) above), reduce service and contract complexity, improve program communication across the region and increase diversion efforts
 - IC&I sector outside the DBAs has had 4 container limit per property, as a base service since March 2011, but only one-third of MU on-line survey respondents felt they could manage if this change was made

Conclusion/Next Steps

- Regional staff are attending LAM Committee/Council meetings to provide a presentation on the proposed collection service options and/or address any questions.
 - **Please contact Andrea Metler as soon as possible to schedule a date (andrea.metler@niagararegion.ca) .**
 - Letter issued to Clerks of each LAM (May 2018) and to each PWO (June 2018) requesting:
 - i. Municipal comments on proposed options; and
 - ii. Confirmation of enhanced services (if applicable) to be included in next contract.
- Original deadline Feb. 1, 2019 extended to Feb. 20, 2019**
- Regional staff are engaging LAM PWO on the proposed base and enhanced services
 - Report back to PW Committee



Let's Talk Waste Niagara

Stakeholder Consultation Results

Introduction

- * Metroline has completed data collection using four different surveys with residents and businesses receiving curbside waste collection from Niagara Region:
 - * A random telephone survey of 1,253 residents of low density properties
 - * An online survey of 6,639 residents in low density properties
 - * An online survey of 38 residents in multi-residential properties
 - * An online survey of 166 businesses in the IC&I and mixed use sectors

Research Methodology

- * The fieldwork for this research took place between October 23, 2018 and December 7, 2018
 - * Online surveys were open from October 23 to November 30, 2018
 - * Telephone surveys took place between November 8 and December 7, 2018. This survey used listed landline numbers and random cellular numbers to reach the broadest cross-section possible.
 - * Residents were also provided an opportunity to complete the survey on pen and paper, if they wished, and return it to Niagara Region. A small number of surveys were received and incorporated.

Conclusions/Key Insights

Consultation Included All Municipalities

Municipality	Population Proportion	Telephone survey	Online residential	Multi-Residential	Business
Fort Erie	7.9%	84	452	1	24
Grimsby	5.4%	75	347	4	12
Lincoln	4.6%	75	298	4	5
Niagara Falls	18.8%	183	1,312	4	33
Niagara-on-the-Lake	4.2%	67	274	--	4
Pelham	3.5%	73	329	2	5
Port Colborne	5.2%	75	318	1	14
St. Catharines	30.3%	279	2,053	18	47
Thorold	4.2%	74	293	1	5
Wainfleet	1.6%	75	81	--	3
Welland	11.7%	119	727	3	11
West Lincoln	2.7%	74	155	--	3
Total	100%	1,253	6,639	38	166



Targeted and Broad Outreach to Businesses

(social media/newspapers, media coverage and a letter with an invitation to participate in the survey was mailed to businesses in known to be using Regional curbside garbage collection)

* Where located?

- | | |
|---------------|-----|
| * Inside DBA | 48% |
| * Outside DBA | 52% |

* Type of business?

- | | |
|---|-----|
| * Industrial, Commercial, Institutional | 53% |
| * Mixed use property | 47% |

* Inside DBA - receive any enhanced collection?

- | | |
|---|-----|
| * Can put out more than seven bags/containers | 13% |
| * Have collection more than once a week | 26% |



Waste Collection

Does your household/business put out the following items for curbside collection?

- * Almost all homes and most businesses participate in recycling.
- * About 7 in 10 low-density residential households claim to participate in organics collection, but only about 30% of businesses are participating.

	LDR Telephone	LDR Online	MR Online	ICI/MU Online	
				Inside DBA	Outside DBA
Sample size	1,253	6,639 (Weighted)	38	80	86
Recycling – Blue and/or Grey Box/Cart	99%	99%	95%	86%	97%
Organics – Green Bin/Cart	71%	72%	63%	30%	29%
Appliances/Scrap Metal	26%	27%	--	--	--
Bulky/Large items	35%	46%	--	--	--
Leaf/Yard waste	63%	81%	--	--	--
Brush in spring/fall	50%	63%	--	--	--

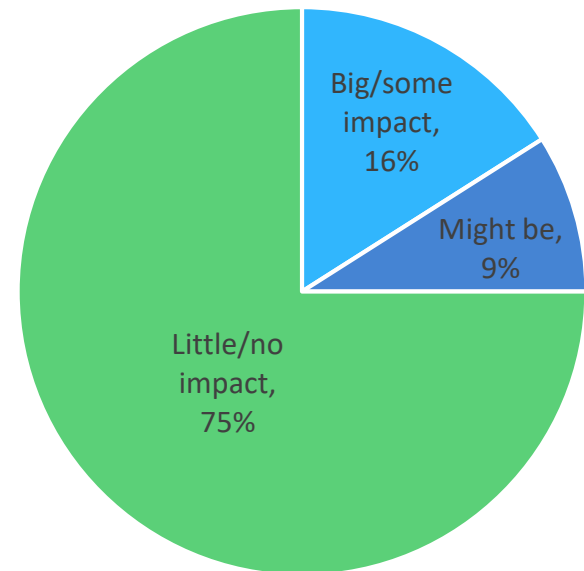


Conclusions/Key Insights

Appliances/Scrap Metal Collection Option – Low Density Residential

- * In the telephone survey, 4 in 5 households in Niagara Region (80%) do not participate in the appliances/scrap metal collection program. Among those who have participated, most only participate about once a year. In the online survey, it was similar, with 75% not participating.
- * Eliminating the curbside appliances/scrap metal collection program would have some impact on about 1 in 5 households in Niagara region. 16% of households in the telephone survey, and 22% in the online survey feel there would be at least some impact.
- * *Conclusion – Given the relatively low participation and impact, it seems this program could be eliminated, providing residents continue to have alternatives of scrap haulers or taking an item to a Regional drop-off depot.*

Impact of stopping appliances/scrap metal collection (Residential)
(Base – Full Sample)

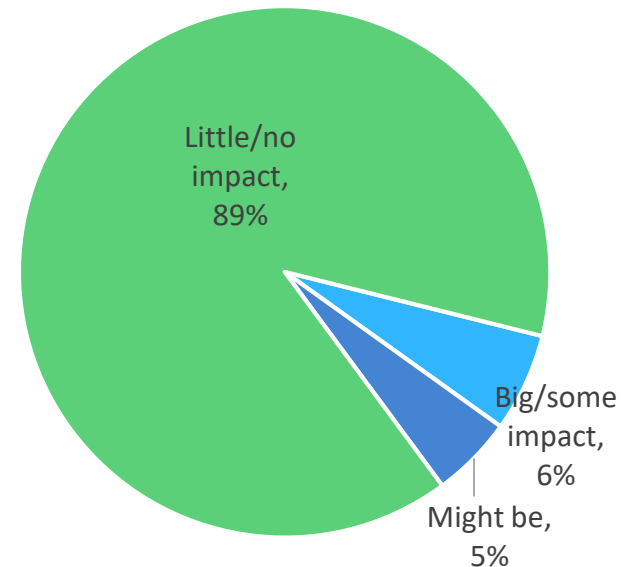


Conclusions/Key Insights

Large Item Collection Option – Low Density Residential

- * In the telephone survey, 29% of households participate in large item collection at least once a year, on average. In the online survey, 44% of households are participating.
- * Only 6% of residents in the telephone survey, and 14% in the online survey, feel a change to limit the number of items to four per collection would have an impact on their household.
- * The vast majority stated there would be little to no impact to them (94% of households in telephone survey, 87% of households in the online survey).
- * *Conclusion - Making a change to the large item collection so that a maximum of four items per collection can be put out will not unduly impact Niagara region residents.*

Impact of stopping bulky/large item collection (Residential)
(Base – Full Sample)



Conclusions/Key Insights

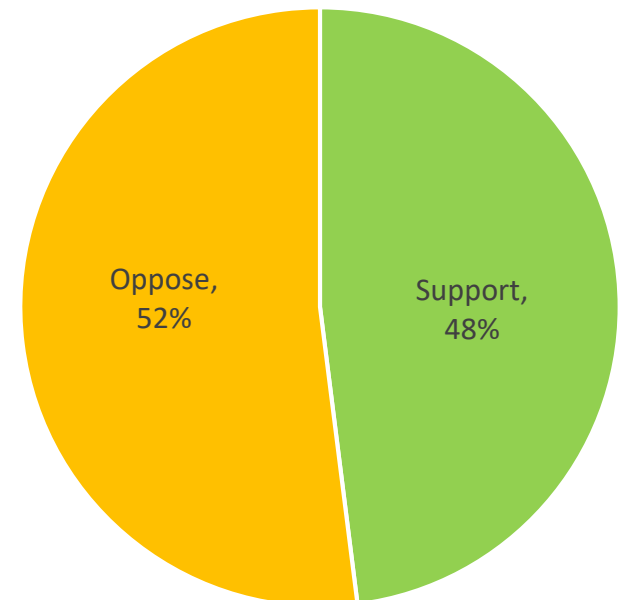
Clear Garbage Bag Option (Residential)

- * Household support for the mandatory use of clear bags in the telephone survey was surprisingly a fairly even split. 48% would support (definitely or probably), and 52% do not support.
- * It's a different picture when looking at the sentiment expressed in the online survey. 27% would support, and 73% oppose.

"I use grocery bags for household garbage and put directly into garbage can. Seems like a waste and I don't want to purchase bags..."

"I do not need anyone to see what I put in garbage. Sewer pipes are not clear plastic because nobody needs to see that either..."

Clear Garbage Bags (Residential)
(Base – Full Sample)



Conclusions/Key Insights

Clear Garbage Bag Option (Businesses)

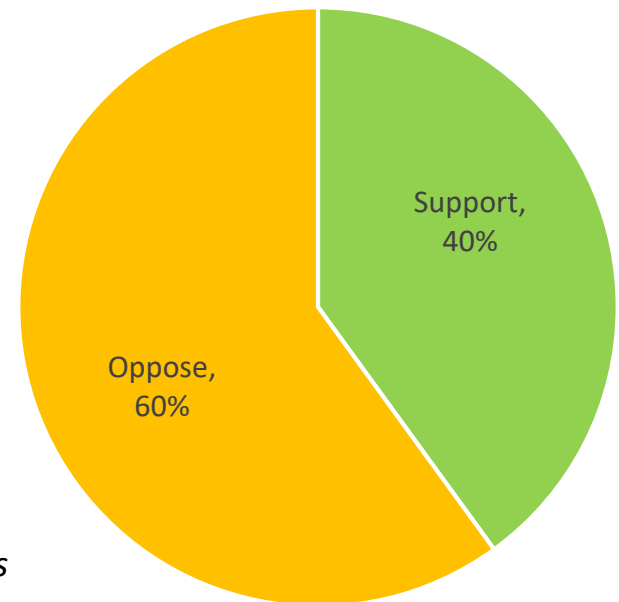
- * In total, we heard from 166 businesses in Niagara region.
- * 40% would support the idea of clear bags, 60% would oppose.

"Black and green bags make it too easy for people to be lazy and not separate a lot of items that likely never need to end up in a landfill. It's encouraging mindfulness when putting your garbage out at the curb..."

"I cannot train my tenants to do this properly. The landlord tenant act does not give me any tools to make them comply..."

"We don't need more government control like the GARBAGE POLICE. Leave some decisions to the citizens and not make this into a Communist Society..."

Clear Garbage Bags (Business)
(Base – Full Sample)



Conclusions/Key Insights

Why Support/Oppose Clear Garbage Bags?

* **Residential**

- * Supporters feel this would help keep unwanted items from the landfill (51%) and encourage people to recycle and use Green Bins (48%)
- * Those opposed don't like the invasion of privacy (40%), and tied to that, they don't want neighbours seeing their garbage (24%). They don't feel Niagara Region needs 'garbage police' (8%).

* **Business**

- * Supporters here also feel it would keep unwanted items from the landfill (30%). They see that it would be safer for the collectors (10%), but only 8% feel it would encourage businesses to recycle/use Green Bins/Carts
- * Those opposed are concerned about their privacy (36%) and don't see a need for 'garbage police' (11%)

❖ *Conclusion: While there is some support for the mandatory use of clear bags, those opposed are quite vocal about their concerns and it could become an issue. We do not recommend making clear garbage bags mandatory.*



Conclusions/Key Insights

Every-Other-Week Garbage Collection Option (Residential)

	Niagara Region		Hamilton (1)		Waterloo Region (2)	
	Telephone (n=1,253)	Online (n=6,639)	Telephone (n=800)	Online (n=1,468)	Telephone (n=511)	Online (n=7,087)
A big impact	27%	37%	34%	44%	25%	18%
Some impact	21%	21%	20%	19%	29%	24%
Might or might not be an impact	7%	9%	6%	8%	7%	10%
Not much of an impact	19%	17%	18%	13%	22%	24%
No impact	26%	16%	22%	16%	17%	24%
Impact Ratio (Big/Some vs. Not much/no impact)	+3%	+25%	+14%	+34%	+15%	-6%

- * 48% of residents in the telephone survey say there would be at least some impact to them in a change to Every-Other-Week (EOW) garbage collection. Typically these are households of at least three people.
- * *Conclusion: Residents are fairly evenly split on how EOW garbage collection would impact their household. In Waterloo Region, the impact ratio was higher for the telephone survey and they elected to begin EOW garbage collection, and with a similar score in Hamilton, council elected not to proceed.*

^[1] City of Hamilton Waste Management Services Public Engagement Survey – Metroline Research Group Inc., 2016

^[2] Region of Waterloo Waste Survey, Metroline Research Group Inc., 2014

Conclusions/Key Insights

Every-Other-Week Garbage Collection Option (Business)

	Total (n=86)	ICI (n=35)	MU (n=51)
A big impact	52%	43%	66%
Some impact	22%	26%	17%
Might or might not be an impact	8%	10%	6%
Not much of an impact	8%	10%	6%
No impact	9%	12%	6%
Impact Ratio (Big/Some vs. Not much/no impact)	+57%	+47%	+71%

- * We heard from 86 businesses located outside DBA zones. There would be significantly more perceived impact to their operation in a switch to EOW garbage collection.
- * *Conclusion: Businesses outside DBA zones have a perceived need to continue having weekly pickup, but they are not fully utilizing the diversion programs.*



Reviewing the Options

Business

IC&I and MU Inside DBA Container Limits

- Slight majority could manage a reduction to four garbage bags/containers (58%)
- Less than half feel there would be a significant impact on their business/property

IC&I and MU Inside DBA Enhanced Collection Frequency

- We had a small sample, but they were on the same page.
- Reducing frequency of collection by one day per week would be a challenge for these businesses

MU Outside DBA Container Limits

- Only one-third could manage reducing from six (6) to four (4)
- 60% feel there would be an impact on their business

IC&I and MU Outside DBA every- other-week garbage collection

- Less than 40% could manage every-other-week collection
- About three-quarters (74%) say their business/property will be impacted by this change

Mandatory clear garbage bag option

- Only 40% supported this option and those opposed are definitely negative and vocal



Reviewing the Options

Residential

Scrap metal/appliances option

- Not widely used, will not cause a big impact on households, and alternative options exist

Bulky/large items option

- Not widely used, and is being reduced not removed, will not cause a big impact on household

Mandatory clear garbage bag option

- There is some support, but those opposed are quite concerned about privacy and a 'big brother' or 'garbage police' mentality

Every-other-week garbage collection

- Support from residential is mixed, and impacts mostly larger families. Waterloo Region proceeded with less support, Hamilton did not. Businesses do not support this.

Subject: Proposed Base Services for Next Collection Contract

Report to: Public Works Committee

Report date: Tuesday, January 8, 2019

Recommendations

1. That, based on the results of the stakeholder engagement process, the Request for Proposals for Niagara Region's next garbage, recycling and organics collection RFP **BE APPROVED** to be issued with the following, subject to final comments from Local Area Municipalities:
 - a) Pricing for the following garbage collection frequency options:
 - i) Every-other-week (EOW) garbage collection for all residential properties and for those Industrial, Commercial & Institutional (IC&I) and Mixed-Use (MU) properties located outside Designated Business Areas (DBAs), as a base service (weekly recycling and organics to continue, and current garbage container (bag/can) limits would double for affected sectors, on an EOW basis), and
 - ii) Status quo – weekly base garbage collection service.
 - b) Establishment of a four (4) item limit per residential unit, per collection, for large item collection at Low-Density Residential (LDR) properties, as a base service.
 - c) Discontinuation of appliances and scrap metal curbside collection at LDR properties, as a base service.
 - d) Change the weekly garbage container (bag/can) limits for Industrial, Commercial & Institutional (IC&I) and Mixed-Use (MU) properties located inside Designated Business Areas (DBAs) from seven (7) containers to four (4) containers per property, as a base service.
 - e) Change the weekly garbage container limit for MU properties located outside DBAs from six (6) containers to four (4) containers per property, as a base service.
2. That Report PW 3-2019 and Council's resolutions, along with the Metroline stakeholder consultation report, when finalized, **BE CIRCULATED** to the Local Area Municipalities, for their review, and comments to be provided by February 1, 2019 or no later than February 20, 2019.

3. That staff **BE DIRECTED** to provide a follow-up report on the position of the Local Area Municipalities on the base and enhanced services to be included in the next garbage, recycling and organics collection contract Request for Proposals.

Key Facts

- Niagara Region's next garbage, recycling and organics collection contract is set to begin by March 8, 2021.
- The preparation for the next collection contract provides an opportunity to complete a service delivery review to improve program effectiveness (i.e. increase diversion of waste from disposal) and efficiencies (i.e. mechanisms to reduce costs and changes to service to reflect usage).
- On April 12, 2018, Regional Council approved WMPSC-C 9-2018, which identified the proposed base collection services options to be included in the stakeholder consultation and engagement process.
- The purpose of this report is to seek Council's approval of the proposed base collection services being recommended for inclusion in Niagara Region's next collection RFP, based on the results of input received during the stakeholder consultation and engagement phase, subject to further input from Local Area Municipalities (LAMs).
- Niagara Region is consulting with LAMs on the proposed base collection service changes and to confirm which enhanced collection services they would like included in the next collection RFP.

Financial Considerations

It is estimated that without any changes to the existing collection service levels to be provided in Niagara Region's next contract, the annual contract cost could be greater than \$25 million in 2021. This is based on an average of the bids received for the current collection contract, plus annual escalation of 1.9%. Factors such as, but not limited to, the increase in minimum wage and driver shortages will more than likely impact pricing.

The primary financial implications of implementing the proposed recommendations include:

- Final consideration of inclusion of EOW garbage collection in the next collection contract would occur after pricing is received for this option. As a point of reference:
 - In response to Niagara Region's last collection contract RFP, excluding one submission anomaly, on average bidders priced a cost reduction of approximately \$1.2 million annually for EOW garbage collection.
 - Region of Waterloo's implementation of EOW garbage collection in their 2017 contract resulted in an annual contract savings of approximately \$1.5 million.

- Elimination of Niagara Region's annual contract cost to provide appliance and scrap metal curbside collection, which currently is approximately \$130,000.
- Incremental cost avoidance for the proposed weekly large item and garbage container limit changes, which would likely be offset by incremental increases in the organics and recycling collection costs, based on anticipated increased participation in diversion programs.
- Extended site life for open Regional landfills, and more revenue generating capacity from the reduction of divertible materials being landfilled by residents and other service users who are participating in the curbside recycling and organics collection programs.
- Cost avoidance/cost reduction in the landfill contract with Walker Environmental due to an increase in the diversion of waste from disposal.
- Increased tonnages of food and organic waste collected at the curb from improved participation and capture rates would result in increased processing contract costs, unless the tonnages are offset by food waste avoidance and other reduction initiatives.
- Reduced methane emissions due to the reduction of organics being landfilled will result in less leachate generated, thereby reducing costs associated with care and control of these landfill sites.

Analysis

A) BACKGROUND

Current Collection Contracts:

Niagara Region's current collection contracts with Halton Recycling Ltd., doing business as Emterra Environmental, and Waste Connections of Canada Inc. expire March 7, 2021. Niagara Region recently awarded a new collection contract for the municipalities of Lincoln and West Lincoln to Canadian Waste Management Inc. from January 2, 2019 until March 7, 2021. These contracts include provision of base and enhanced collection services, which are defined as follows:

i) Base Collection Services

Niagara Region currently provides base collection services (i.e. weekly garbage, recycling, and organics) to all property types, including IC&I and MU properties located inside and outside DBAs, in all 12 Local Area Municipalities (LAM). Each LAM pays a proportional share of this cost, based on their total household units, as a percentage of the Region's total household units.

Appendix 1 provides a comparison of the current vs. proposed base collection services for each property type.

ii) Enhanced Collection Services

Niagara Region also provides enhanced collection services (i.e. street litter, front-end garbage, additional garbage container limits, increased garbage or recycling collection frequency, etc.), at the request of each LAM. Each LAM directly pays for the cost associated with providing their enhanced collection services. Each LAM was requested to verify which enhanced collection services they would like included as part of Niagara Region's next collection RFP.

Appendix 2 provides a detailed comparison of the current vs. previous enhanced collection services provided in each LAM.

Current Residential Diversion Rate:

Over the past seven years, Niagara Region's residential diversion rate has increased from 42% (2010) to 56% (2017), however this rate may be plateauing. In preparation for the next contract, Niagara Region is investigating options to increase participation in the recycling and organics diversion programs, such as EOW garbage collection and mandatory use of clear garbage bags. Experience in other Ontario jurisdictions demonstrates that EOW garbage collection is an effective mechanism to increase diversion. It is a best practice in Ontario and the highest residential diversion rate primarily attributable to EOW was in York Region (66% in 2016). While Niagara has achieved its 2016 residential diversion target of 56%, additional mechanisms are needed to achieve the 2020 target of 65%. These mechanisms also include improved recognition of waste reduction and reuse efforts, which traditionally are more difficult to measure.

Estimated Landfill Capacity:

At the time of this report, approval for the Humberstone Landfill expansion is expected to be finalized before the end of 2018. This landfill expansion will provide capacity for an estimated 25 years or more, based on serving the southern Niagara municipalities. The current remaining capacity at the Niagara Road 12 Landfill is 48 years, based on serving the municipalities of Pelham, Grimsby, Lincoln and West Lincoln. Niagara Region's current disposal contract with Walker Environmental for the remaining Niagara municipalities ends in February 2031, or just over 12 years.

In order to ensure long term disposal capacity is available, Niagara Region staff are:

- i) Initiating the RFP for the Long Term Waste Management Strategic Plan in 2019-2020.
- ii) Participating in the Municipal Mixed Waste Processing (MWP) Working Group, which has the objective to "identify collaboration opportunities and specific information needs, actions and timelines, in order to determine the feasibility of jointly implementing waste management policies, programs and/or facilities", which includes alternative technology facilities.
- iii) Continuing to engage other neighbouring municipalities in discussions related to available capacity at their current/future alternative waste management technology

facilities and future needs that could be addressed by partnering on alternative technologies.

B) PROPOSED BASE COLLECTION OPTIONS

The following proposed base collection options were included as part of the stakeholder consultation and engagement phase for Niagara Region's next collection contract:

- 1) Change the weekly garbage container (bag/can) limits for IC&I and MU properties located inside DBAs from seven (7) containers to four (4) containers per property.
 - 2) Change the weekly garbage container limit for MU properties located outside DBAs from six (6) containers to four (4) containers per property.
 - 3) Every-other-week (EOW) collection for garbage only (weekly recycling and organics to continue) for all sectors outside DBAs:
 - Current garbage container limits would double for all sectors (i.e. LDR properties would be allowed to set out two (2) garbage containers, on an EOW basis).
- and/or
- 4) Mandatory use of clear bags for garbage, with the option of allowing an opaque privacy bag to be placed inside the clear bag:
 - The clear bag program will be for all sectors (both inside and outside DBAs).
 - 5) Establishment of a four (4) item limit per residential unit, per collection, for large item collection at LDR properties, and, if requested by LAMs, as an enhanced collection service at eligible Multi-Residential (MR) and MU properties.
 - 6) Discontinuation of appliances and scrap metal collection at LDR properties.

Rationale for Proposed Base Collection Options:

The following rationale was taken into consideration when determining which collection options were recommended for consultation:

- 1) Increasing participation and capture rates in the Region's recycling and organics diversion programs and extending existing landfill site capacity;
 - Nearly 50% of low density residential garbage is organic waste and only 48% use the residential Green Bin program;
 - IC&I and MU audits show diversion programs underutilized.
- 2) Benchmarking collection services, based on the best practices and/or major trends observed from the service levels provided at Niagara's 13 municipal comparators that would result in financial, environmental and/or social benefit e.g. contract cost avoidance and increased diversion through the implementation of EOW garbage collection.
- 3) Reflecting actual service usage based on results of curbside audits and other collection monitoring/measurements and contract cost avoidance for services with limited usage:
 - 99% of properties using the large item service set out 4 items or less and 92% of the total bookings were for 4 or less items.
 - Appliances and scrap metal:
 - Tonnages have decreased by 94% since 2007;

- Items can be recycled, at no cost, at the Region’s Drop-off Depots, or by scrap metal haulers/dealers;
 - Only 6% of properties are using the service.
- 4) Standardizing base garbage collection limits across similar sectors to improve service delivery and program communication, increase participation and capture rates in diversion programs, potentially avoid contract costs for a service level which is not needed and reduce contract complexity – this specifically includes consistent base garbage collection container (bag/can) limits for the IC&I and MU sectors inside and outside DBAs;
- Average number of garbage containers placed out per week:
 - IC&I properties inside DBAs was 2.1;
 - MU properties inside DBAs was 2.0;
 - MU properties outside the DBA is 2.4.
 - Proposed four (4) garbage container limit should meet the set-out needs of the IC&I and MU properties, based on these audit results, particularly if diversion services are utilized. IC&I properties outside DBAs already have a base four (4) garbage container limit in place.

The associated rationale for each proposed base collection option and the curbside set-out audit data for the IC&I and MU sectors are included in more detail in Appendix 3.

C) STAKEHOLDER CONSULTATION AND ENGAGEMENT PHASE

The stakeholder consultation and engagement phase was referred to as “Let’s Talk Waste Niagara”.

Stakeholder consultation and engagement began in May 2018 and was carried out in two phases:

- 1) Targeted Stakeholder Consultation
- 2) Broad-based Community Consultation

1) Targeted Stakeholder Consultation:

Various stakeholder groups were targeted for consultation to provide input on the proposed collection options being considered for Niagara Region’s next contract. These stakeholder groups included:

- a) Regional Departments and Agencies, Boards and Commissions (ABCs) (i.e. Niagara Region’s Planning and Development Services Department, Niagara Regional Housing, and Niagara Region’s Economic Development);
- b) Waste Management Advisory Committee (WMAC);
- c) Organizations Representing Businesses (i.e. Business Improvement Associations, Chambers of Commerce, Niagara Tourism Agencies, and Niagara Industrial Association);
- d) LAMs (i.e. municipal staff and Councillors).

The formal input on the proposed collection options was received from the following targeted stakeholder groups:

a) Regional Departments and ABCs:

i) Niagara Region's Planning and Development Services:

Niagara Region's Planning and Development Services noted the proposed options align with and support policy 4.2.9.1 d) i) of the Growth Plan, which relates to waste management. Staff also reviewed the proposed container limit changes pertaining to MU properties inside and outside DBAs, to ensure alignment with broader Corporate initiatives, including the objectives of Growth Management policies. Based upon their review, it was anticipated that smaller MU developments would not be affected by the proposed change in container limits.

ii) Niagara Regional Housing:

Niagara Regional Housing reviewed the relevant proposed collection options and indicated they would not be in support of EOW garbage collection, or mandatory use of clear bags for garbage at their properties.

iii) Niagara Region's Economic Development:

Niagara Region's Economic Development indicated that their work generally revolves around larger industrial companies, which would not use the Region's curbside garbage collection service, and would not be impacted by the proposed collection options.

b) Waste Management Advisory Committee (WMAC)

A meeting was held with members of the WMAC on November 21, 2018 to discuss the proposed collection options and obtain their formal comments. The WMAC members voted all in favour or majority in favour of all of the proposed collection options.

c) Organizations Representing Businesses (ORBs):

Meetings were held with representatives from each of Niagara's local Business Improvement Associations (including LAM staff), Chambers of Commerce, Niagara Tourism Agencies, Niagara Economic Development Corporation, and Niagara Industrial Association, during the months of July, August and September. The dates of these meetings can be found in Appendix 5.

The purpose of these meetings was to:

- Discuss the proposed collection options;
- Obtain their preliminary input on these options;
- Obtain their input on how to further engage their members; and,
- Request their formal comments on the proposed collection options by November 30, 2018.

The following ORBs provided formal comments on the proposed collection options for the next contract:

- Queen Street BIA, Niagara Falls
- Victoria Centre BIA, Niagara Falls
- St. Catharines Downtown Business Association
- Port Dalhousie Business Association
- Grimsby Downtown Improvement Association
- Pelham Business Association

A copy of the ORB's comments were provided to the respective LAM, for their consideration, and are included in Appendix 4.

Based on the comments received, there was limited support for the mandatory use of clear bags for garbage, or the reduction in the garbage container limits for IC&I and MU properties inside the DBAs.

d) Local Area Municipalities (LAMs)

Correspondence on the proposed collection options and enhanced collection services was sent to LAM Clerks and Public Works Officials (PWO) in May 2018, for their review and comment.

Niagara Region made presentations on the proposed collection options at several PWO meetings during 2018. In addition, Region staff offered to attend LAM Committee or Council meetings to make a presentation. As of December 19, Region staff were requested to present at the following LAM Committee or Council meetings:

- Grimsby Council (December 17, 2018)
- Niagara-on-the-Lake Council (January 7, 2019)
- Lincoln Council (January 14, 2019)
- Niagara Falls Council (January 15, 2019)
- Fort Erie Council (January 21, 2019)
- West Lincoln Council (January 21, 2019)
- Welland General Committee (January 22, 2019)

Town of Grimsby

Town of Grimsby Council, at its December 17, 2018 meeting, approved the eight recommendations, which were included in Report DPW18-42:

- 1) Implement EOW garbage collection for all residential properties and for those IC&I and MU properties located outside the Grimsby DIA area, as a base service.
- 2) Do not implement clear garbage bags.
- 3) Establish a four-item limit for large item collection, per residential unit.
- 4) Provide large-item collection at MR buildings with 7 or more residential units and MU properties with 1 or more residential unit.
- 5) Discontinue appliances and scrap metal curbside collection at LDR properties.
- 6) Reduce the number of garbage bags/containers for IC&I and MU properties inside the DIA area from 7 to 4 per week, as a base service.
- 7) The Town's enhanced service and extra payment for collection inside the Grimsby DIA area remain at two collection days per week but changed to Tuesdays and Fridays and that the number of garbage bags/containers be reduced from 12 per pick-up day to 6 per pick-up day (12 per week), resulting in the Town's Enhanced service payment being reduced from 17 bags/containers per week to 8.
- 8) The number of garbage bags/containers for MU properties outside the Grimsby DIA area be reduced from 6 to 4 per week, or 8 containers under EOW garbage collection, as a base service.

Formal comments from the remaining LAMs on the proposed base collection options and which enhanced services are to be included in Niagara Region's next contract are requested by February 1, 2019 or no later than February 20, 2019.

2) Broad-based Community Consultation:

In addition to targeted stakeholder consultation, a broad-based community consultation was undertaken with the following stakeholder groups:

- LDR households;
- MR property owners, groups and associations (i.e. property management companies);
- IC&I and MU property owners

This broad-based community consultation included the following activities and approaches:

- a) Promotion & Outreach;
- b) Surveys;
- c) Public Open Houses and Community Booths;
- d) Social Media; and
- e) Waste Management Info-Line and Website.

a) Promotion & Outreach:

The following mediums were used during the last week of October and the entire month of November to promote community consultation on the proposed collection options:

- (i) Niagara Region's Website

- (ii) Social Media (i.e. Facebook paid ads and posts and Twitter posts) with a link to the “Let’s Talk Waste” webpage;
- (iii) Letters sent to IC&I, MU and MR properties, which use Region’s curbside garbage;
- (iv) Newspaper Advertisements (i.e. print and on-line);
- (v) Media Coverage (i.e. Cogeco YourTV, 610 CKTB, newspaper articles);
- (vi) Postcards (Regional and Municipal offices)

Details on each of the various promotional mediums can be found in Appendix 5.

b) Surveys:

A Request for Proposal was awarded to Metroline Research Group to undertake quantitative research to determine whether there was sufficient support for recommending the proposed collection options. The following surveys were completed:

- (i) On-line surveys were completed by 6,639 LDR households, 38 MR and 166 IC&I and MU properties (86 outside DBAs and 80 inside DBAs);
- (ii) Telephone survey of 1,253 LDR households;

Based on preliminary results, as of December 17, 2018, strong support for the following options occurred:

- Establishment of a four (4) item limit per residential unit, per collection, for large item collection at LDR properties, as a base service.
- Discontinuation of appliances and scrap metal curbside collection at LDR properties, as a base service.

However, no clear LDR support for EOW garbage collection or mandatory use of clear garbage bags was demonstrated in the survey results:

- LDR households were roughly split on supporting EOW garbage collection with slightly more leaning towards continuing their weekly collection.
- Opposition to the mandatory use of clear garbage bags was apparent, particularly from the on-line survey (73% of LDR households opposed).

In order to determine the order of preference for clear garbage bags versus EOW garbage collection (or both), all survey respondents were asked to make a program choice. The below table highlights the results from all stakeholder groups, with the exception of IC&I and MU inside DBAs who would not receive EOW garbage collection, and in many cases receive enhanced services.

	LDR		MR	IC&I and MU Outside DBAs
	Telephone	On-line	On-line	On-line
Clear Bag	33%	17%	29%	36%
EOW	27%	33%	13%	15%

	LDR		MR	IC&I and MU Outside DBAs
Both Clear Bag and EOW	21%	12%	18%	7%
Neither ¹	19%	38%	40%	42%

1. In the telephone survey, LDR households could not see the option of 'neither' and the interviewer worked to obtain a choice, which is why this option has a much lower response than in the on-line surveys.

In the case of the IC&I and MU sectors:

- Majority of those property owners (58% of 43 respondents) receiving base garbage collection inside the DBAs indicated they can manage if the container limit is reduced from seven (7) containers to four (4);
- Majority of those property owners (65% of 43 IC&I respondents and 74% of 35 MU respondents) outside the DBAs support continuing the current level of service.

A more detailed description of results is provided below.

(i) On-line Surveys:

On-line surveys were developed to obtain formal input from various stakeholder groups (i.e. LDR, MR, IC&I and MU) on the proposed collection options. These on-line surveys were open to all residents and businesses receiving Niagara Region's curbside garbage collection service.

A total of 6,639 on-line surveys were completed by LDR households, 38 on-line surveys by MR households, and 166 on-line surveys by IC&I and MU properties. There were no controls to limit the regions or populations for survey participants. However, Metroline monitored and deleted any duplicate survey submissions.

The highlights of the on-line survey results for each sector are included below.

- LDR:
 - 43% would be able to manage with EOW garbage collection;
 - 62% would not support mandatory use of clear bags for garbage;
 - 33% would choose the option of EOW garbage collection; 17% clear bags; 12% both EOW and clear bags; and 38% neither option;
 - 72% would not be impacted with placing a maximum limit of four large items per weekly collection;
 - 61% would not be impacted with the elimination of curbside collection of appliances/scrap metal
- MR:
 - 37% would be able to manage with EOW garbage collection;

- 42% would not support mandatory use of clear bags for garbage;
 - 13% would choose the option of EOW garbage collection; 29% clear bags; 18% both EOW and clear bags; and 40% neither option
 - IC&I and MU Inside DBAs (Base Collection):
 - 58% could manage if the weekly base container limit was reduced from seven to four containers;
 - 46% of IC&I and 49% of MU properties would not support mandatory use of clear bags for garbage
 - IC&I and MU Inside DBAs (Enhanced Collection):
 - 66% feel they need to maintain their current container limits;
 - 87% feel they need to continue with their current frequency of collection
 - IC&I and MU Outside DBAs (Base Collection):
 - 66% of MU properties could manage if the weekly base container limit was reduced from six to four containers;
 - 35% of IC&I and 26% of MU properties would be able to manage with EOW garbage collection
 - 38% of IC&I and 63% of MU properties would not support mandatory use of clear bags for garbage
- (ii) Telephone Survey:
Metroline conducted a random telephone survey of residents living in LDR properties. In total, 1,253 surveys were conducted, which can be considered statistically accurate to within +/-2.8%, 19 times out of 20 (95% Confidence Interval). The sample was divided between the 12 LAMs, with minimum of 75 surveys was completed in each.

The highlights of the telephone survey results are included below:

- LDR:
 - 46% would be able to manage with EOW garbage collection;
 - 38% would not support mandatory use of clear bags for garbage;
 - 27% would choose the option of EOW garbage collection; 33% clear bags; 21% both EOW and clear bags; and 19% neither option;
 - 89% would not be impacted with placing a maximum limit of four large items per weekly collection;
 - 75% would not be impacted with the elimination of curbside collection of appliances/scrap metal

Additional details on the LDR on-line and telephone survey results can be found in Appendix 8.

c) Public Open Houses and Community Booths:

Niagara Region conducted one public open house and one community booth event in each of Niagara's 12 LAMs during the month of November. The dates and locations of these events can be found in Appendix 6.

The purpose of these events was to engage participants on the proposed collection options and request their input on the proposed collection options through completion of the on-line survey. There were over 500 participants that attended these various events held across the region.

The majority of comments received were related to the options for EOW garbage collection and mandatory use of clear garbage bags. Participants attending the community booths and open houses were divided about every-other-week garbage collection. While approximately half of the participants expressed their support, there were some specific concerns that were repeated throughout the consultation process. There was less support for clear bags, with the majority of participants expressing opposition to this option.

A minority of the feedback and conversations at these events dealt with the options to introduce a four-item limit on large item collection and the discontinuation of appliances and scrap metal curbside collection, but of those commenting, there was a high level of support to implement these changes.

Appendix 4 provides a summary of the more commonly-repeated concerns raised during these events.

d) Social Media:

Facebook was the primary social media platform used by stakeholders to comment on the proposed collection options for the next contract. The majority of comments were related to the proposed options for the mandatory use of clear garbage bags and every-other-week garbage collection. Of all the comments documented that were related to every-other-week garbage collection, 22% of comments were in support of this proposed option. For clear garbage bags, 10% of comments related to this option were supportive.

Overall, the majority of commenters used this platform as a means of communicating their concerns. The comments posted on the Region's paid Facebook advertisement were reviewed, categorized and tallied. As of November 30, 2018, there were 1,467 Facebook comments were posted.

Appendix 4 provides a summary of the ten most frequently reported concerns, in order of the frequency that they appeared in the comments section.

e) Comments from Niagara Region's Waste Management Info-Line and Website:

A total of 65 comments/inquiries on the proposed collection options were received and responded to by staff through Niagara Region's Waste Management Info-Line, Website or by email in either June, October, or November.

D) OVERVIEW OF KEY RECOMMENDATIONS

1. Base Collection Service Changes

As a result of the stakeholder engagement and consultation process, the following key recommendations are being made:

a) EOW Garbage Collection

Based on best practices and experience with EOW garbage collection in Niagara's municipal comparator group (municipalities with populations greater than 300,000) and the potential for significant cost reduction, it is recommended that this option be included for pricing in the next collection contract RFP, for comparison with weekly garbage collection frequency. Although there was no clear stakeholder support and Niagara Regional Housing expressed opposition to this option, municipalities who have implemented this change note that residents do adapt and increase their diversion efforts, as a result.

EOW garbage collection would apply to all residential properties and those Industrial, Commercial & Institutional (IC&I) and Mixed-Use (MU) properties located outside Designated Business Areas (DBAs), as a base service (weekly recycling and organics to continue, and current garbage container (bag/can) limits would double for affected sectors, on an EOW basis).

b) Limit on Large Item Collection

Establishment of a four (4) item limit per residential unit, per collection, for large item collection at LDR properties, as a base service is recommended, based on actual usage statistics and responses from a majority of survey respondents.

c) Discontinuation of Appliances and Scrap Metal

Discontinuation of appliances and scrap metal curbside collection at LDR properties, as a base service is recommended based on actual usage statistics and responses from a majority of survey respondents.

d) Weekly Base Garbage Container Limits Inside DBAs

Changing the weekly garbage container limits for IC&I and MU properties located inside Designated Business Areas (DBAs) from seven (7) containers to four (4) containers per property, as a base service, is recommended, based on actual usage statistics and responses from a majority of base service user on-line survey respondents. Although the base garbage container limit would decrease, eligible IC&I and MU properties inside the DBAs have unlimited organics and recycling collection once weekly, but currently

these diversion programs are underutilized. It should be noted that of the six (6) ORBs that provided formal comment, only one (1) supported this change.

e) Weekly Base Garbage Container Limits Outside DBAs

Changing the weekly garbage container limit for MU properties located outside DBAs from six (6) containers to four (4) containers per property, as a base service, is recommended, based on actual usage statistics and to achieve a standardized base collection service across all similar sectors (in combination with option d) above). This will reduce service and contract complexity and improve program communication across the region. This change is also expected to result in increased diversion efforts, as the current unlimited recycling and organics program for all eligible IC&I and MU properties are currently underutilized. The IC&I sector outside the DBAs has had four (4) container limit per property, as a base service since March 2011. However, it should be noted that out of the 43 MU survey respondents, only one third felt they could manage if this change was made.

While the initial list of all proposed options is supported by WMAC and Niagara Region's Planning and Development Services noted the options align with and support policy 4.2.9.1 d) i) of the Growth Plan, which relates to waste management, one of the options is not recommended for implementation based on the general lack of support from survey respondents. The use of mandatory clear garbage bags will continue to be monitored for potential future implementation but based on existing data from Ontario jurisdictions, EOW garbage collection is expected to have more of a positive financial and diversion performance impact.

In order to address the concerns and comments received on the proposed options being recommended for inclusion in the next collection contract, Appendix 7 proposes potential solutions to minimize impact of the change(s) on the service user. This appendix will continue to be developed and expanded, as required.

2. Enhanced Collection Service Changes

Niagara Region is requesting that LAMs confirm existing or new enhanced services that should be provided as part of the next collection contract. There are three areas that should be specifically addressed:

- a) In those LAMS that provide enhanced garbage collection service to DBAs, Regional staff have been engaged in discussions with Local Public Works Officials on one or more of the following proposals for the IC&I and MU sectors, based on usage of current garbage collection service and underutilization of the diversion programs:
- Reducing DBA garbage container limits;
 - Reducing frequency of DBA garbage collection; and
 - Increasing recycling and/or organics collection service to align with frequency of garbage collection.

- b) Provision of enhanced bulky goods collection to those households in MR buildings with seven (7) or more residential units (garbage limit of a maximum of 12 containers per week with no tags) and MU properties with one (1) or more residential unit (garbage limit of a maximum of seven (7) containers per week outside the DBA and a maximum of six (6) containers per week inside the DBA), that receive the Region's curbside base garbage collection and/or to those MR building receiving enhanced Regional containerized front end garbage collection service:
- These properties must be participating in the Region's diversion programs (i.e. recycling and organics) in order to qualify to receive this service.
 - This service would be provided in a manner that is parallel to the approved service for the LDR sector.
- c) Verification if any municipality would like to include a per stop price for in-ground public space recycling and litter bins and/or for in-ground IC&I, MR and/or MU properties (all streams), as an enhanced service under provisional items.

3. Contract Service Improvements

As outlined in Report WMPSC-C 9-2018, staff will be pursuing the following service improvements in the next collection contract RFP:

- a) Potential changes to how the Region collects leaf and yard waste (L&YW) and brush at LDR households, which would be a seamless change to residents:
- In addition to the current service level, the Region would obtain pricing to provide an additional four weeks of dedicated L&YW and branch collection in the spring and the fall seasons, in the urban areas only, or potentially expanding a dedicated L&YW and brush collection to approximately ten (10) months of the year in urban areas;
 - This change would result in lower organics processing costs by separating L&YW material from green bin material, thereby removing this material from the GORE system;
 - This change would result in increased organics collection costs associated with providing these additional L&YW and branch collection service;
 - Staff will need to complete a cost-benefit analysis to determine whether the organics processing cost savings outweigh the increased collection costs before determining whether to proceed with these changes.
- b) Elimination of a current restriction that impacts IC&I properties with private garbage collection. Currently, these properties, which would otherwise have been eligible to receive curbside garbage collection, are restricted from using this service.
- These properties must be participating in the Region's diversion programs (i.e. recycling and organics), in order to qualify to receive the curbside garbage collection service.

E) NEXT STEPS

The Region is requesting receipt of the following from LAMs by February 1, 2019 or no later than Feb 20, 2019:

- Comments/position on proposed base collection service options;
- Verification of current or additional enhanced services - this would include:
 - Services to IC&I and MU properties inside DBAs;
 - Provision of enhanced large item collection service to MR and MU residential units, in a manner parallel to the service provided to the LDR sector (i.e. if LDR has a 4 item limit per unit per collection day, this would also apply to MR and MU residential units);
 - Inclusion of a per stop price for in-ground public space recycling and litter bins and/or for in-ground IC&I, MR and/or MU properties (all streams), as an enhanced service under provisional items.

The milestones for the collection contract RFP development are outlined below:

- Report to Public Works Committee (PWC) and Council on results of stakeholder consultation and engagement (PWC January 8, 2019 and Council January 17, 2019);
- Receipt of each LAM's position on base and enhanced services (no later than February 20, 2019);
- Council approval of service levels to be included and RFP development initiated (Q2 to Q3 2019);
- RFP issuance (early Q4 2019);
- Award of new collection contract (Q1 2020);
- One year for successful bidders to order/receive their fleet of collection vehicles (Q1 2020 to Q1 2021);
- Start of new contract (March 8, 2021).

Alternatives Reviewed

Niagara Region investigated the option of switching over to cart-based collection for the next collection contract. Under the Province's Environmental Plan, waste diversion programs, such as the Blue Box Program, may be moving to the producer responsibility model. As a result, Niagara Region would no longer be responsible for providing collection and processing of Blue Box materials. This would be the responsibility of the Blue Box industry stewards. Therefore, at this time, staff did not believe implementing major program changes was advisable.

Also, based on the experiences of other municipalities that implemented a cart-based collection program, this option was not recommended for further consideration for the following reasons:

- 1) Significant capital costs to purchase and distribute the carts

- 2) On-going annual maintenance and replacement costs associated with the carts
- 3) Higher contamination rates of the recycling and organics streams associated with the use of carts. As a result, there would be a decrease in the Region's revenues and difficulty with marketing the recyclables.
- 4) Additional costs associated with retrofitting Niagara Region's Materials Recycling Facility from the current two-stream operation to a single-stream operation, if all recyclables are collected in one cart.

Based on the results received during the stakeholder consultation and engagement phase, the following proposed collection option is not being recommended for implementation, as part of Niagara Region's next collection contract:

- 1) Mandatory use of clear bags for garbage, with the option of allowing an opaque privacy bag to be placed inside the clear bag

Relationship to Council Strategic Priorities

The recommendation to approve the proposed base collection services for Niagara Region's next collection contract supports Council's Strategic Priority of Investment, Innovation and Entrepreneurship.

Other Pertinent Reports

- CWCD 357-2018 Let's Talk Waste Niagara – Stakeholder Consultation and Engagement Activities for the Proposed Waste Collection Options
- CWCD 216-2018 Fact Sheet – Consultation and Engagement Strategy for Proposed Service Level Collection Options Under Consultation
- WMPSC-C 9-2018 Stakeholder Consultation and Engagement on Proposed Collection Service Changes for Next Collection Contract
- WMPSC-C 34-2017 Schedule for the Next Regional Waste, Recycling and Organics Collection Contract
- PW 42-2014 A Matter of the Security of the Property of the Municipality – Bulky/White Goods Collection Service for Multi-Residential and Mixed-Use Properties
- WMPSC-C 44-2013 Bulky/White Goods Collection Service for Multi-Residential and Mixed-Use Properties
- WMPSC-C 2-2013 Large Item Collection Service for Multi-Residential Buildings and Mixed-Use Properties
- PW 47-2012 Consultation Results on Proposed Clear Bag Pilot for Industrial, Commercial and Institutional Properties
- WMPSC 24-2011 Clear Bag for Garbage Pilot for Industrial, Commercial and Institutional Properties

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Appendix 1 - Comparison of Current vs. Proposed Base Collection Services

Property Type	Current Base Collection Service Level	Proposed Base Collection Service Level
Low-Density Residential (1 to 6 units): single-family, townhouse, semi-detached, duplex, triplex, fourplex, fiveplex, sixplex, cottages	• Weekly garbage, 1 bag/can limit per residential unit	• Every-other-week garbage, 2 bag/can limit per residential unit, and/or • Mandatory use of clear garbage bags
	• Weekly, unlimited Blue/Grey Boxes	• Weekly, unlimited Blue/Grey Boxes
	• Weekly, unlimited Green Bins	• Weekly, unlimited Green Bins
	• Large items, with no limit per collection, per residential unit	• Large items, with 4 item limit per collection, per residential unit
	• Appliances and scrap metal, with no limit per collection, per residential unit	• No appliances and scrap metal collection
	• Weekly Leaf & Yard Waste (L&YW) and 8 brush collections per year	• Weekly L&YW and 8 brush collections per year • Additional 4 weeks of dedicated L&YW and brush collections in the spring and the fall seasons, in urban areas only
Multi-Residential (7 or more units): • apartments, cottages, condominiums and rentals, nursing and retirement homes, mixed-use, rooming/boarding houses	• Weekly garbage, 1 bag/can limit per residential unit, maximum 12 bags per building	• Every-other-week garbage, 2 bag/can limit per residential unit, maximum 24 bags per building and/or • Mandatory use of clear garbage bags
	• Weekly, unlimited Blue/Grey Boxes or Carts	• Weekly, unlimited Blue/Grey Boxes or Carts
	• Weekly, unlimited Green Bins or Green Carts (by request)	• Weekly, unlimited Green Bins or Green Carts (by request)

Property Type	Current Base Collection Service Level	Proposed Base Collection Service Level
	• No large item collection	• Provision of large item collection to properties receiving Region's curbside base or enhanced garbage collection (ELOS provided only)
	• No appliances and scrap metal collection	• No appliances and scrap metal collection
	• No L&YW or brush collection	• No L&YW or brush collection
Mixed Use Buildings – <u>Inside</u> DBA	• Weekly garbage, maximum 7 bag/can limit per property	• Weekly garbage, maximum 4 bag/can limit per property and/or • Mandatory use of clear garbage bags
	• Weekly, unlimited Blue/Grey Boxes or Carts	• Weekly, unlimited Blue/Grey Boxes or Carts
	• Weekly, unlimited Green Bins/Carts	• Weekly, unlimited Green Bins/Carts
	• No large item collection	• Provision of large item collection to residential units only, which receive Region's curbside base or enhanced garbage collection (ELOS provided only)
	• No appliances and scrap metal collection	• No appliances and scrap metal collection
	• No L&YW or brush collection	• No L&YW or brush collection
Mixed Use Buildings – <u>Outside</u> DBA	• Weekly garbage, maximum 6 bag/can limit per property	• Weekly garbage, maximum 4 bag/can limit per property • Every-other-week garbage collection, maximum 8 bag/can limit per property (if container limit decrease approved) and/or • Mandatory use of clear garbage bags

Property Type	Current Base Collection Service Level	Proposed Base Collection Service Level
	• Weekly, unlimited Blue/Grey Boxes or Carts	• Weekly, unlimited Blue/Grey Boxes or Carts
	• Weekly, unlimited Green Bin/Carts	• Weekly, unlimited Green Bin/Carts
	• No large item collection	• Provision of large item collection to residential units only, which receive Region's curbside base or enhanced garbage collection (ELOS provided only)
	• No appliances and scrap metal collection	• No appliances and scrap metal collection
	• No L&YW or brush collection	• No L&YW or brush collection
IC&I Properties – <u>Inside</u> DBA	• Weekly garbage, maximum 7 bag/can limit per property	• Weekly garbage, maximum 4 bag/can limit per property and/or • Mandatory use of clear garbage bags
	• Weekly, unlimited Blue/Grey Boxes or Carts	• Weekly, unlimited Blue/Grey Boxes or Carts
	• Weekly, unlimited Green Bin/Carts	• Weekly, unlimited Green Bin/Carts
	• No large item collection	• No large item collection
	• No appliances and scrap metal collection	• No appliances and scrap metal collection
	• No L&YW or brush collection	• No L&YW or brush collection
IC&I Properties– <u>Outside</u> DBA	• Weekly garbage, maximum 4 bag/can limit per property	• Every-other-week garbage, maximum 8 bag/can limit per property and/or • Mandatory use of clear garbage bags • Elimination of restriction on curbside garbage collection for

Property Type	Current Base Collection Service Level	Proposed Base Collection Service Level
		IC&I properties receiving private garbage collection
	<ul style="list-style-type: none"> • Weekly, unlimited Blue/Grey Boxes or Carts 	<ul style="list-style-type: none"> • Weekly, unlimited Blue/Grey Boxes or Carts
	<ul style="list-style-type: none"> • Weekly, unlimited Green Bin/Carts 	<ul style="list-style-type: none"> • Weekly, unlimited Green Bin/Carts
	<ul style="list-style-type: none"> • No large item collection 	<ul style="list-style-type: none"> • No large item collection
	<ul style="list-style-type: none"> • No appliances and scrap metal collection 	<ul style="list-style-type: none"> • No appliances and scrap metal collection
	<ul style="list-style-type: none"> • No L&YW or brush collection 	<ul style="list-style-type: none"> • No L&YW or brush collection

Appendix 2 – Comparison of Current vs. Previous Enhanced Collection Services

Municipality	2004-11 Collection Contract	2011-21 Collection Contract
Fort Erie	Street Litter Receptacle Collection	
	<ul style="list-style-type: none"> Once-per-week collection (Jarvis and Ridge Road) 	<ul style="list-style-type: none"> Twice-per-week collection (Jarvis St, Ridge Rd and Niagara Blvd. Once-per-week collection (Crystal Beach DBA) Once-per-week collection (Garrison Rd.)
Grimsby	Street Litter Receptacle Collection	
	<ul style="list-style-type: none"> Twice-per week collection 	<ul style="list-style-type: none"> Three days-per-week collection Once-per-week collection on Windward Dr.
	Additional Curbside Waste Collection	
	<ul style="list-style-type: none"> One additional garbage collection day per week in the downtown core Maximum of 12 garbage containers per property per collection day in the downtown core 	<ul style="list-style-type: none"> One additional collection day per week in the downtown core Maximum of 12 garbage containers per property per collection day in the downtown core
Lincoln	Containerized Waste Collection	
	<ul style="list-style-type: none"> Once-per-week collection 	<ul style="list-style-type: none"> Once-per-week collection
	Weekly (Blue and Grey) Recycling Cart Collection	
	<ul style="list-style-type: none"> Once-per-week (Monday) 	<ul style="list-style-type: none"> Every municipality with a Designated Business Area receives weekly recycling collection as part of base collection service
Niagara Falls	Street Litter Receptacle Collection	
	<ul style="list-style-type: none"> Seven days-per-week, year-round collection in Mainline business district Chippawa area collected on Thursday by residential truck and Sundays, mid-May to mid-October, as part of Mainline business district 	<ul style="list-style-type: none"> Seven days-per-week, year-round collection in Mainline business district Chippawa DBA collected once-per week. One additional day per week collection from mid-May to mid-October Collection once-per-week for street litter receptacles outside the Mainline

Appendix 2 – Comparison of Current vs. Previous Enhanced Collection Services

Municipality	2004-11 Collection Contract	2011-21 Collection Contract
	Containerized Waste Collection	
	<ul style="list-style-type: none"> Once or twice per week (Monday and/or Thursday) 	<ul style="list-style-type: none"> Multi-residential buildings with varying collection frequency
	Additional Curbside Waste Collection	
	<ul style="list-style-type: none"> All tourist/commercial business (lodging and food outlets only) on the Mainline receive an increase to 20 garbage containers per property, between July 1 to Labour Day 	<ul style="list-style-type: none"> All tourist/commercial businesses (lodging and food outlets only) on the Mainline receive an increase from seven to fifteen garbage containers per property, between the Victoria Day weekend and Labour Day
	Old Corrugated Cardboard Collection	
	<ul style="list-style-type: none"> Once-per-week collection (over two days-Thursday and Friday) 	<ul style="list-style-type: none"> No collection of old corrugated cardboard
Niagara-on-the-Lake	Special Set-out Collection for Physically-Challenged Residents	
	<ul style="list-style-type: none"> Set-out and collection service of standard limit garbage, organics and recycling containers 	<ul style="list-style-type: none"> Included in base collection services
	Additional Curbside Waste Collection	
	<ul style="list-style-type: none"> Two additional garbage collection days per week in the downtown core Maximum of 20 garbage containers per property for each collection day 	<ul style="list-style-type: none"> Two additional garbage collection days per week in the downtown core Maximum of 20 garbage containers per property for each collection day
	Old Corrugated Cardboard Collection	
	<ul style="list-style-type: none"> Weekly cardboard collection from commercial properties in the Queen Street Commercial Area, two days per week: Monday and Thursday 	<ul style="list-style-type: none"> Two days of curbside collection of cardboard from commercial properties in the Queen Street Commercial Area
	Weekly (Both Streams) Recycling Cart Collection	
	<ul style="list-style-type: none"> Once-per-week collection 	<ul style="list-style-type: none"> Every municipality with a Designated Business Area receives weekly recycling collection as part of base collection service

Appendix 2 – Comparison of Current vs. Previous Enhanced Collection Services

Municipality	2004-11 Collection Contract	2011-21 Collection Contract
Pelham	Street Litter Receptacle Collection	
	• Once-per-week collection	• Twice-per-week collection
	Containerized Waste Collection	
	• Once-per-week collection	• Once-per-week collection, with the exception on one property receiving twice-per-week collection
	Weekly (Both Streams) Recycling Cart Collection	
	• Once-per-week collection (Thursday)	• Every municipality with a Designated Business Area receives weekly recycling collection as part of base collection service
Port Colborne	Special Set-out Collection for Physically-Challenged Residents	
	• Set-out and collection service of standard limit garbage, organics and recycling containers	• Included in base collection services
	Street Litter Receptacle Collection	
	• No street litter receptacle collection	• There are street litter receptacles (OMG bins) that require separate collection of Grey and/or Blue Box materials. The recycling from the compartmentalized bins are collected separately and at the same frequency as garbage containers
	Additional Curbside Waste Collection	
Port Colborne	• Daily garbage collection at Port Colborne Hospital (Monday-Friday). No container limit. • Additional garbage container limits at group homes, schools, Home Hardware	• No additional curbside waste collection as part of enhanced services
	Old Corrugated Cardboard Collection	
	• Once-per-week collection (Thursday)	• Every municipality with a Designated Business Area receives weekly recycling

Appendix 2 – Comparison of Current vs. Previous Enhanced Collection Services

Municipality	2004-11 Collection Contract	2011-21 Collection Contract
		collection as part of base collection service
St.Catharines	Street Litter Receptacle Collection	
	<ul style="list-style-type: none"> • Seven days-per-week, including all parks, sports facilities and recyclables from OMG bins 	<ul style="list-style-type: none"> • Four days-per-week collection for Downtown St.Catharines • Seven days-per-week, from May 1 to October 31 inclusive, and one (1) day per week, from November 1 to April 30 inclusive in Port Dalhousie • Once-per-week collection for all other street litter receptacles located on city streets, in front of schools, in sports facilities, parks, cemeteries, and recreational and community centres
	Containerized Waste Collection	
	<ul style="list-style-type: none"> • Variable frequency - multi-residential/Downtown IC&I properties and pullout service 	<ul style="list-style-type: none"> • Variable frequency - multi-residential properties
	Additional Curbside Waste Collection	
	<ul style="list-style-type: none"> • Six additional collection days per week in the downtown core, over and above the Base Level of Service 	<ul style="list-style-type: none"> • Three additional collection days per week in the downtown core, over and above the Base Level of Service • Maximum of 7 garbage containers per property per collection day in the downtown core
	Old Corrugated Cardboard Collection	
		<ul style="list-style-type: none"> • Communal front-end cardboard containers shared by businesses in the downtown collection area
	Weekly (Both Streams) Recycling Cart Collection	
	<ul style="list-style-type: none"> • Once-per-week collection (Monday or Thursday) 	<ul style="list-style-type: none"> • Every municipality with a Designated Business Area receives weekly recycling collection, as part of base

Appendix 2 – Comparison of Current vs. Previous Enhanced Collection Services

Municipality	2004-11 Collection Contract	2011-21 Collection Contract
		collection service
	Special Set-out Collection for Physically-Challenged Residents	
	<ul style="list-style-type: none"> • Set-out and collection service of standard limit garbage, organics and recycling containers 	<ul style="list-style-type: none"> • Included in base collection services
Thorold	Street Litter Receptacle Collection	
	<ul style="list-style-type: none"> • Three days-per-week collection 	<ul style="list-style-type: none"> • Three days-per-week collection
	Additional Curbside Waste Collection	
	<ul style="list-style-type: none"> • Two additional collection days per week in the downtown core 	<ul style="list-style-type: none"> • Two additional collection days per week in the downtown core
	Additional Blue Box Collection	
	<ul style="list-style-type: none"> • Additional weekly collection of Blue Box recyclables for all commercial properties located within the City of Thorold's BIA. 	<ul style="list-style-type: none"> • Additional weekly collection of Blue Box recyclables for all commercial properties located within the City of Thorold's BIA.
Welland	Containerized Waste Collection	
	<ul style="list-style-type: none"> • No containerized waste collection 	<ul style="list-style-type: none"> • Once-per-week collection (condo properties)
West Lincoln	Containerized Waste Collection	
	<ul style="list-style-type: none"> • Once-per-week collection 	<ul style="list-style-type: none"> • Once or twice-per-week collection depending on location
	Additional Curbside Waste Collection	
	<ul style="list-style-type: none"> • No additional curbside waste collection 	<ul style="list-style-type: none"> • One additional collection day per week in the downtown core • Maximum of 7 garbage containers per property per collection day in the downtown core

Appendix 3 - Rationale for Proposed Collection Service Options for Next Contract

Proposed Collection Service Options:

- 1) **Change the weekly garbage container (bag/can) limits for IC&I and MU properties located inside Designated Business Areas (DBA) from seven (7) containers to four (4) containers per property, as a base service.**

Pros	Cons
<p>1) Fairness & equity: <u>Base Collection Service:</u></p> <ul style="list-style-type: none"> based on the 2018 curbside audits: <ul style="list-style-type: none"> average # of garbage containers placed out per week by <u>IC&I</u> properties <u>inside</u> DBAs was 2.1. in 2018, audits were completed in: Grimsby, Welland (Downtown and North End), Port Colborne (Main St. and Downtown), Lincoln (Beamsville and Vineland), Pelham, Thorold, St. Catharines (Downtown and Port Dalhousie), Fort Erie (Ridgeway, Bridgeburg, and Crystal Beach), and Niagara Falls (Queen, Main St., Lundy's Lane, Clifton Hill and Chippawa) DBAs. based on the 2016 and 2018 curbside audits: <ul style="list-style-type: none"> average # of garbage containers placed out per week by <u>MU</u> properties <u>inside</u> DBAs was 2.0. in 2016, audits were completed in: Fort Erie (Ridgeway, Bridgeburg, and Crystal Beach), Welland (Downtown and North End), and Port Colborne (Main St. and Downtown) DBAs. in 2018, audits were completed in: Grimsby, Lincoln (Beamsville and Vineland), Pelham, Thorold, St. Catharines (Downtown and Port Dalhousie), and Niagara Falls (Queen, Main St., Lundy's Lane, Clifton Hill and Chippawa) DBAs. the proposed 4 garbage container limit should meet the set-out needs of the IC&I and MU properties, based on these audit results, particularly if diversion services are 	<p>1) Potential illegal dumping:</p> <ul style="list-style-type: none"> if garbage container limits are decreased, there is potential for businesses and residents to illegally dump items. <p>2) Potential for increased number of complaints from business owners, MU property owners and residents due to reduced container limit:</p> <ul style="list-style-type: none"> business owners may potentially complain about this reduction in container limit being provided to their property.

Pros	Cons
<p>utilized.</p> <ul style="list-style-type: none"> the proposed 4 garbage container limit will align with the existing 4 garbage container limit for IC&I properties located outside DBAs, and the proposed limit for IC&I and MU properties located inside DBAs. it will encourage participation in diversion programs, which are under-utilized. <p><u>Enhanced Collection Service:</u></p> <ul style="list-style-type: none"> based on the 2014 garbage set-outs at enhanced <u>IC&I</u> properties: <ul style="list-style-type: none"> Grimsby (12 garbage container limit, twice per week) – average # of garbage containers placed out per set-out: 3.6 West Lincoln (7 garbage container limit, twice per week) – average # of garbage containers placed out per set-out: 2.5 Thorold (7 garbage container limit, three times per week) – average # of garbage containers placed out per set-out: 4.5 based on the 2015 garbage set-outs at enhanced Niagara Falls <u>IC&I</u> and <u>MU</u> properties: <ul style="list-style-type: none"> Main Street, Lundy's Lane and Queen Street DBAs – average # of garbage containers placed out per set-out: 5.2 (IC&I) and 2.9 (MU) audits were completed during the summer months, when the 15 garbage container limit was in effect for food and lodging outlets (1 collection per week). It is a 7 garbage container limit elsewhere, once/week. based on the 2018 garbage set-outs at enhanced <u>IC&I</u> and/or <u>MU</u> properties: <ul style="list-style-type: none"> Grimsby (12 garbage container limit, twice per week) – average # of garbage containers placed out per set-out: 1.6 (MU) West Lincoln (7 garbage container limit, twice per week) – average # of garbage containers placed out per set-out: 1.7 (MU) 	

Pros	Cons
<ul style="list-style-type: none"> - Thorold (7 garbage container limit, three times per week) – average # of garbage containers placed out per set-out: 1.9 (MU) - NotL (20 garbage container limit, three times per week) – average # of garbage containers placed out per set-out: 6.0 (IC&I) and 6.8 (MU) - St. Catharines (7 garbage container limit, four times per week) – average # of garbage containers placed out per set-out: 2.7 (IC&I) and 1.5 (MU) 	

2) Change the weekly garbage container limit for MU properties located outside DBAs from six (6) containers to four (4) containers per property, as a base service.

Pros	Cons
<p>1) Fairness & equity: <u>Base Collection Service:</u></p> <ul style="list-style-type: none"> • based on the 2014 curbside audit: <ul style="list-style-type: none"> - average # of garbage containers placed out per week by MU properties outside DBAs: 2.4 • the proposed four (4) container limit would meet the set-out needs of the MU properties, based on these audit results. • the proposed four (4) container garbage limit will align with the existing four container garbage limit for IC&I properties located outside DBAs, and the proposed limit for IC&I and MU properties located inside DBAs. • it will increase diversion, with less reliance on landfill. 	<p>1) Potential illegal dumping:</p> <ul style="list-style-type: none"> • if garbage container limits are decreased, there is potential for businesses and residents to illegally dump items. <p>2) Potential for increased number of complaints from business owners, due to reduced container limit:</p> <ul style="list-style-type: none"> • business owners, MU property owners and residents may potentially complain about this reduction in container limit being provided to their property.

3) Every-other-week (EOW) collection for garbage only (weekly recycling and organics to continue) for all sectors outside DBAs, as a base service. Current garbage container limits would double for all sectors (i.e. LDR properties would be allowed to set out two (2) garbage containers, on an EOW basis).

Pros	Cons
1) Municipal best practice/trend:	1) Potential illegal dumping:

Pros	Cons
<ul style="list-style-type: none"> approximately 70% of the municipal comparators (Barrie, Durham, Halton, Markham, Ottawa, Toronto, Vaughan, Peel and Waterloo) provide EOW garbage collection service. Residents have adapted to this change. <p>2) Increased waste diversion:</p> <ul style="list-style-type: none"> waste diversion rates increased between 6% (Peel) and 16% (Durham) for these municipal comparators. This depended on whether they introduced other diversion programs (i.e. organics) at the same time as EOW garbage. <p>3) Potential contract savings:</p> <ul style="list-style-type: none"> annual contract savings for the municipal comparators ranged between \$200,000 (Barrie), Waterloo (\$1.5 million), and \$12 million (Peel), depending on size of the contract and any other contract changes that were implemented (i.e. EOW, carts, etc.). <ul style="list-style-type: none"> However, Peel staff reported a one-time initial cost to implement three stream cart collection of \$35 million (based on 325,000 single-family homes), with an estimated annual maintenance and replacement cost of \$1 to 3 million. avoided Walker disposal costs, if there is a decrease in the volume of garbage collected. <p>4) Regional disposal capacity:</p> <ul style="list-style-type: none"> preservation of existing Regional disposal capacity, if the volume of garbage landfilled decreases. <p>5) Fairness & equity:</p> <ul style="list-style-type: none"> based on the 2015-16 waste composition study, Niagara's LDR properties set out an average of 0.9 garbage containers per 	<ul style="list-style-type: none"> if residents/businesses are not provided with weekly garbage collection service, there is potential for them to illegally dump items. <p>2) Potential increased number of complaints, due to reduction in service:</p> <ul style="list-style-type: none"> Residents/businesses may complain about this reduction in garbage collection service being provided to their property.

Pros	Cons
week.	

4) Mandatory use of clear bags for garbage, with the option of allowing an opaque privacy bag to be placed inside the clear bag. The clear bag program will be for all sectors (both inside and outside DBAs), as a base service.

Pros	Cons
<p>1) Increased waste diversion:</p> <ul style="list-style-type: none"> studies completed by Ontario's Stewardship Effectiveness & Efficiency Fund report that "<i>clear bag programs are successful in decreasing the amount of recyclables being landfilled or incinerated, and have shown that mandatory by-laws and clear bags result in maximum participation and diversion</i>". implementing clear bags resulted in a 6% increase in Markham's 2014 diversion rate, for a total diversion rate of 81%. residents are motivated to recycle due to social pressure. <p>2) Enforcement/safety:</p> <ul style="list-style-type: none"> increases awareness of what is placed in the garbage, due to visibility of bag contents. eliminates (or minimizes) the option of concealing hazardous or other non-acceptable materials (e.g. recyclables and organics) in the garbage. facilitates education and enforcement of Niagara's Waste Management By-law, where necessary. <p>3) Fairness & equity:</p> <ul style="list-style-type: none"> clear bags are currently being used for diapers by those Niagara residents operating daycares out of 	<p>1) Perception of invasion of privacy:</p> <ul style="list-style-type: none"> residents using clear bags may complain it is an invasion of their privacy. <ul style="list-style-type: none"> this concern is partially addressed by allowing the use of an opaque bag inside the clear bag. IC&I business groups, who participated in the Region's 2012 consultation sessions for a clear garbage bag pilot, expressed privacy concerns, as well. <p>2) Potential illegal dumping:</p> <ul style="list-style-type: none"> residents and businesses opposing the use of clear garbage bags may potentially illegally dump their garbage. <p>3) Collection issues:</p> <ul style="list-style-type: none"> if a clear bag is placed inside a reusable container, enforcement may become more difficult if driver dumps the contents of the container directly into truck, as opposed to pulling the clear bag out of the container to look at it. the IC&I business groups expressed concerns about the aesthetics of uncollected bags, which would contain non-acceptable materials, being left in downtown or tourist areas. <p>4) Other Municipal programs:</p>

Pros	Cons
<p>their households, or families with at least two children under the age of four years old.</p> <ul style="list-style-type: none"> – these residents may feel the program ensures equal treatment for all households. 	<ul style="list-style-type: none"> • clear bag pilots were implemented in two comparator municipalities (Durham and Markham), however only Markham implemented a full program. • Durham decided not to implement a region-wide clear bag program in 2014, due to a lack of information on the effectiveness of the clear bag in reducing the amount of garbage collected.

5) Establishment of a four (4) item limit per unit per collection for large item service at LDR, MR and MU properties.

Pros	Cons
<p>1) Municipal best practice/trend:</p> <ul style="list-style-type: none"> • average large item limit is three per residential unit for those municipalities with weekly collection, and four per residential unit with bi-weekly collection. <p>2) Potential contract savings:</p> <ul style="list-style-type: none"> • municipalities that implemented collection limits on the number of large items reported contract savings. <p>3) Fairness & equity:</p> <ul style="list-style-type: none"> • provides a standardized collection limit for all properties. • Niagara residents set out an average of fewer than 2 large items per collection in 2018. 	<p>1) Potential illegal dumping:</p> <ul style="list-style-type: none"> • if residents are limited in the amount of large items that can be collected, there is potential for them to illegally dump items. <p>2) Potential increased number of complaints from residents, due to reduction in service:</p> <ul style="list-style-type: none"> • residents may complain about this reduction in service being provided to their property.

6) Discontinuation of appliances and scrap metal collection at LDR properties.

Pros	Cons
<p>1) Municipal best practice/trend:</p> <ul style="list-style-type: none"> • approximately half of municipal comparators (Barrie, Hamilton, 	<p>1) Potential illegal dumping:</p> <ul style="list-style-type: none"> • if residents are not provided with service, there is potential for them

Pros	Cons
<p>London, Ottawa, Peel and Windsor) do not provide appliance collection service.</p> <p>2) Potential contract savings:</p> <ul style="list-style-type: none"> • municipalities that eliminated this collection service realized a contract savings. In Peel, this was a net annual savings of \$100K. • Niagara's current annual cost to collect these items is \$126K (or \$2,032 per tonne due to the reduced tonnage). • many appliances and scrap metal items are scavenged before municipal contractors can collect them. <ul style="list-style-type: none"> – for the first two months of 2018, Emterra reported that approximately 60% of the items scheduled for collection were “not out” and were potentially scavenged. • appliance and scrap metal tonnages collected in 2017 were 94% lower than what was collected in 2007. <p>3) Fairness & equity:</p> <ul style="list-style-type: none"> • residents have the option to recycle these items, at no cost, at the Region's drop-off depots or a scrap metal dealer, as well as call a scrap metal hauler to collect them. 	<p>to illegally dump items.</p> <ul style="list-style-type: none"> • Barrie reported an increase in illegal dumping when bulky/white goods collection service was discontinued; however it was not sustained (approximately six months). • Peel provided its residents with advanced notice of this discontinuation of service and options for collection, so they did not see any significant increase in illegal dumping. <p>2) Potential increased number of complaints from residents, due to elimination of this service:</p> <ul style="list-style-type: none"> • residents may complain about the elimination of this service. • those municipalities that discontinued collection (Barrie, Hamilton, Ottawa and Peel) reported a minimal reaction from their residents.

Audit Results

Base Collection Service Audit Results

Weekly Average Garbage Containers Set Out by IC&I Properties Inside the DBA (Base Collection Area)

Municipality	Audit Year	Average Number of IC&I Properties Participating in Regional Collection Service	Average % of Participating IC&I Properties Using Regional Garbage Collection Service Inside DBA	Average Number of Garbage Containers Per Set-Out	Average % of IC&I Properties Exceeding Garbage Container Limit
Fort Erie	2018	56	88%	1.6	0%
Grimsby	2018	9.0	89%	1.2	0%
Lincoln	2018	18	83%	2.1	3%
Niagara Falls	2015	94.5	87%	2.7	6%
Pelham	2018	34	85%	2.3	3%
Port Colborne	2018	72	88%	2.2	3%
St. Catharines	2018	56	71%	1.7	0%
Thorold	2018	2	100%	1.8	0%
Welland	2018	68	91%	2.0	3%

**Weekly Average Garbage Containers Set Out by MU Properties Inside the DBA
(Base Collection Area)**

Municipality	Audit Year	Average Number of MU Properties Participating in Regional Collection Service	Average % of Participating MU Properties Using Regional Garbage Collection Service Inside DBA	Average Number of Garbage Containers Per Set-Out	Average % of MU Properties Exceeding Garbage Container Limit
Fort Erie	2016	63.5	95%	2.6	7%
Grimsby	2018	2	50%	1.0	0%
Lincoln	2018	21	90%	2.1	5%
Niagara Falls	2015	63	98%	1.8	3%
Pelham	2018	19	79%	2.8	0%
Port Colborne	2016	53	92%	2.5	1%
St. Catharines	2018	16	75%	1.6	0%
Thorold	2018	0	0%	0	0%
Welland	2016	54.5	91%	2.8	3%

**Weekly Average Recycling and Organics Containers Set Out by IC&I Properties
Inside the DBA (Base Collection Area)**

Municipality	Audit Year	Average % of Participating IC&I Properties Using Regional Recycling Collection Service Inside DBA	Average Number of Recycling Containers Per Set-Out	Average % of Participating IC&I Properties Using Regional Organics Collection Service Inside DBA	Average Number of Organics Containers Per Set-Out
Fort Erie	2018	66%	1.9	11%	1.8
Grimsby	2018	56%	1.5	22%	0.8
Lincoln	2018	72%	1.9	17%	1.0
Niagara Falls	2015	61%	2.0	11%	1.3
Pelham	2018	62%	3.1	12%	1.0
Port Colborne	2018	72%	1.6	6%	0.6
St. Catharines	2018	73%	1.5	16%	1.5
Thorold	2018	50%	0.5	0%	0.0
Welland	2018	65%	2.1	9%	2.4

**Weekly Average Recycling and Organics Containers Set Out by MU Properties
Inside the DBA (Base Collection Area)**

Municipality	Audit Year	Average % of Participating MU Properties Using Regional Recycling Collection Service Inside DBA	Average Number of Recycling Containers Per Set-Out	Average % of Participating MU Properties Using Regional Organics Collection Service Inside DBA	Average Number of Organics Containers Per Set-Out
Fort Erie	2016	72%	2.0	16%	0.8
Grimsby	2018	100%	1.8	0%	0.0
Lincoln	2018	52%	2.4	19%	1.1
Niagara Falls	2015	46%	1.3	11%	1.0
Pelham	2018	84%	2.5	32%	0.5
Port Colborne	2016	67%	1.9	19%	1.5
St. Catharines	2018	69%	1.5	13%	1.0
Thorold	2018	0%	0.0	0%	0.0
Welland	2016	72%	2.3	17%	1.0

2014 Weekly Average Garbage Containers Set Out by IC&I Properties Outside the DBA (Base Collection)

Municipality	Average % of IC&I Properties Using Regional Collection Service Outside DBA	Average Number of Containers Per Set-Out	Average Number of IC&I Properties Exceeding 4 Garbage Container Limit	Average % of IC&I Properties Exceeding 4 Garbage Container Limit
Fort Erie	41%	1.7	12	7%
Grimsby	46%	1.8	6	7%
Lincoln	47%	1.7	10	5%
Niagara Falls	43%	1.8	28	7%
Niagara-on-the-Lake	62%	1.3	11	3%
Pelham	37%	1.8	3	6%
Port Colborne	42%	2.1	9	8%
St. Catharines	41%	1.9	35	7%
Thorold	26%	1.7	7	11%
Wainfleet	44%	1.5	1	2%
Welland	39%	1.7	10	6%
West Lincoln	46%	1.4	3	3%
Regional Average:	44%	1.7	11	6%

2014 Weekly Average Garbage Containers Set Out by MU Properties Outside the DBA (Base Collection)

Municipality	Average % of MU Properties Using Regional Collection Service Outside DBA	Average Number of Containers Per Set-Out	Average Number of MU Properties Exceeding 6 Garbage Container Limit	Average % of MU Properties Exceeding 6 Garbage Container Limit
Fort Erie	71%	1.7	1	1%
Grimsby	85%	1.5	0	0%
Lincoln	79%	1.6	1	2%
Niagara Falls	70%	2.0	2	2%
Niagara-on-the-Lake	62%	1.6	0	0%
Pelham	67%	1.7	1	5%
Port Colborne	86%	1.6	0	0%
St. Catharines	69%	1.9	4	2%
Thorold	70%	1.1	0	0%
Wainfleet	70%	1.4	0	0%
Welland	74%	2.0	2	2%
West Lincoln	74%	1.5	0	0%
Regional Average:	72%	1.8	1	1%

2014 Weekly Average Recycling and Organics Containers Set Out by IC&I Properties Outside the DBA (Base Collection)

Municipality	Average % of Participating IC&I Properties Using Regional Recycling Collection Service Outside DBA	Average Number of Recycling Containers Per Set-Out	Average % of Participating IC&I Properties Using Regional Organics Collection Service Outside DBA	Average Number of Organics Containers Per Set-Out
Fort Erie	33%	1.6	7%	1.0
Grimsby	35%	1.8	11%	0.7
Lincoln	41%	1.8	11%	0.8
Niagara Falls	32%	1.7	7%	0.8
Niagara-on-the-Lake	58%	1.9	28%	0.8
Pelham	27%	1.6	12%	0.9
Port Colborne	31%	2.0	8%	1.3
St. Catharines	29%	1.8	9%	0.9
Thorold	21%	1.6	6%	0.7
Wainfleet	37%	1.7	7%	0.8
Welland	28%	1.8	7%	1.4
West Lincoln	34%	1.5	10%	0.7
Regional Average:	34%	1.7	11%	0.9

**2014 Weekly Average Recycling and Organics Containers Set Out by MU
Properties Outside the DBA (Base Collection)**

Municipality	Average % of Participating MU Properties Using Regional Recycling Collection Service Outside DBA	Average Number of Recycling Containers Per Set-Out	Average % of Participating MU Properties Using Regional Organics Collection Service Outside DBA	Average Number of Organics Containers Per Set-Out
Fort Erie	68%	2.0	23%	0.9
Grimsby	76%	1.8	29%	1.3
Lincoln	70%	2.3	27%	0.9
Niagara Falls	50%	1.9	18%	0.7
Niagara-on-the-Lake	54%	2.0	16%	0.6
Pelham	73%	1.7	17%	0.9
Port Colborne	66%	1.6	17%	1.0
St. Catharines	57%	1.8	17%	0.8
Thorold	70%	1.4	35%	0.8
Wainfleet	56%	1.4	7%	0.5
Welland	63%	1.7	19%	1.1
West Lincoln	59%	1.7	15%	0.8
Regional Average:	61%	1.8	20%	0.8

Enhanced Collection Service Audit Results

Weekly Average Garbage Containers Set Out by IC&I Properties Inside the DBA (Enhanced Collection Area)

Municipality	Audit Year	Average # of IC&I Properties Participating in Regional Collection Service	Average % of Participating IC&I Properties Using Regional Garbage Collection	Average # of Garbage Containers Per Set-Out	Average % of IC&I Properties Exceeding Garbage Container Limit
Grimsby	2014	38	88%	3.6	0%
Niagara Falls	2015	147	82%	5.2	6%
NOTL	2018	30	80%	6.0	21%
St. Catharines	2018	77	52%	2.7	0%
Thorold	2014	62.5	94%	4.5	2%
West Lincoln	2014	38	95%	2.5	0%

Weekly Average Garbage Containers Set Out by MU Properties Inside the DBA (Enhanced Collection Area)

Municipality	Audit Year	Average # of IC&I Properties Participating in Regional Collection Service	Average % of Participating IC&I Properties Using Regional Garbage Collection	Average # of Garbage Containers Per Set-Out	Average % of IC&I Properties Exceeding Garbage Container Limit
Grimsby	2018	18	89%	1.6	0%
Niagara Falls	2015	21	95%	2.9	3%
NOTL	2018	17	100%	6.8	12%
St. Catharines	2018	71	94%	1.5	0%
Thorold	2018	30	92%	1.9	0%
West Lincoln	2018	12	100%	1.7	0%

**Weekly Average Recycling and Organics Containers Set Out by IC&I Properties
Inside the DBA (Enhanced Collection Area)**

Municipality	Audit Year	Average % of Participating IC&I Properties Using Regional <u>Recycling</u> Collection	Average # of Recycling Containers Per Set-Out	Average % of Participating IC&I Properties Using Regional <u>Organics</u> Collection	Average # of Organics Containers Per Set-Out
Grimsby	2014	64%	2.6	7%	1.6
Niagara Falls	2015	55%	2.4	6%	4.4
NOTL	2018	57%	2.9	7%	6.0
St. Catharines	2018	52%	2.6	10%	2.4
Thorold	2014	54%	2.2	6%	0.9
West Lincoln	2014	78%	1.8	7%	0.8

**Weekly Average Recycling and Organics Containers Set Out by MU Properties
Inside the DBA (Enhanced Collection Area)**

Municipality	Audit Year	Average % of Participating MU Properties Using Regional <u>Recycling</u> Collection	Average # of Recycling Containers Per Set-Out	Average % of Participating MU Properties Using Regional <u>Organics</u> Collection	Average # of Organics Containers Per Set-Out
Grimsby	2018	78%	0.9	0%	0.0
Niagara Falls	2015	57%	1.1	14%	0.6
NOTL	2018	59%	2.3	0%	0.0
St. Catharines	2018	55%	2.5	7%	2.6
Thorold	2018	67%	1.1	3%	3.5
West Lincoln	2018	67%	1.8	0%	0.0

Appendix 4 - Stakeholder Comments on Proposed Base Collection Options

Consultation and engagement with stakeholders commenced in May of 2018 to obtain input on the proposed base collection options. The following sections summarize the results of the comments provided by stakeholders throughout the consultation process. Not all stakeholders that staff engaged with provided formal comments on the proposed collection options. In addition, the results of the on-line and telephone survey are contained in a separate appendix. The following section summarizes the formal comments provided from the following stakeholders:

- Regional Departments and Agencies, Boards and Commissions
- Waste Management Advisory Committee
- Organizations Representing Business (ie. Business Improvement Associations, Chambers of Commerce, Tourism Agencies and Industrial Associations)
- Local Area Municipalities
- Residents and Business Owners (excluding feedback provided through the on-line and telephone surveys)

1.0 Regional Departments and Agencies, Boards and Commissions (ABCs):

Staff from the following Regional Departments and ABCs provided input on the proposed base collection options.

1.1 Planning and Development Services

Planning and Development Services reviewed the proposed container limit changes pertaining to MU properties inside and outside DBAs, to ensure alignment with broader Corporate initiatives, including the objectives of Growth Management policies. The following comments were provided by Pat Busnello, Manager Development Planning:

“the proposed reduced limit would not affect larger mixed-use developments that already exceed the current container limits and require private garbage collection”

“recent curbside audits referenced in Appendix A of Report WMPSC-C 9-2018 indicate the average number of garbage containers placed out weekly by mixed-use properties was below the proposed limit. The report therefore, indicates that the needs of mixed-use properties are expected to be met based on the audit results, particularly if diversion services are utilized. As

such, it is generally not anticipated that smaller mixed-use developments would be affected by the proposed change.”

Lindsey Savage, Planner with Community and Long Range Planning provided comments on the alignment of the proposed collection options with the new Growth Plan for the Greater Golden Horseshoe, which took effect on July 1, 2017:

- “The proposed changes to waste collection services align with and support policy 4.2.9.1 d) i) of the Growth Plan, which requires municipalities to develop and implement official plan policies and other strategies in support of integrated waste management, including through enhanced waste reduction, composting and recycling initiatives. In addition, a new Regional Official Plan is under development which will include policies supporting integrated waste management, in conformity with the Growth Plan.”

1.2 Economic Development

Valerie Kuhns, Economic Development Manager with Economic Development indicated that their work generally revolves around larger industrial companies, which would not use the Region’s curbside garbage collection service, and would not be impacted by the proposed collection options

1.3 Niagara Regional Housing

Cameron Banach, Manager Housing Operations with Niagara Regional Housing reviewed the relevant proposed collection options and indicated they would not be in support of EOW garbage collection, or mandatory use of clear bags for garbage at their properties.

2.0 Waste Management Advisory Committee (WMAC)

At the November 21, 2018 WMAC meeting, members voted all in favour or majority in favour of all base collection options.

3.0 Organizations Representing Business

Meetings were held with representatives from each of Niagara’s Business Improvement Associations, Chambers of Commerce, Niagara Tourism Agencies, Niagara Economic Development Corporation, and Niagara Industrial Association, during the months of August and September.

The following ORBs provided formal comments on the proposed collection options for the next contract:

- **Grimsby Downtown Improvement Association:**
 - Do not support reducing base container limit from seven (7) cans/bags to four (4) cans/bags per week.
 - Do not support mandatory use of clear garbage bags due to concern about enforcement and mixed-use properties.
 - Do not support reducing enhanced container limit without knowing the associated cost savings.
- **Niagara Falls - Queen Street Business Improvement Association:**
 - Do not support reducing base container limit from seven (7) cans/bags to four (4) cans/bags per week.
 - Do not support mandatory use of clear garbage bags.
- **Niagara Falls - Victoria Centre Business Improvement Association:**
 - Request reduction in container limit for enhanced collection service from fifteen (15) cans/bags weekly to seven (7) cans/bags weekly.
 - Do not support mandatory use of clear garbage bags. Support would be contingent on seeing a report on how the contractor will educate its staff on the proper materials that go into the proper containers/bags.
 - Request collection start time change to 5 a.m., instead of 7 a.m.
- **Pelham Business Association:**
 - Support all proposed collection options
- **Port Dalhousie Business Association:**
 - Expressed concern that proposed options would make collection more onerous and/or costly for businesses.
 - Also have concerns about storing garbage in the hot summer months.
- **St. Catharines Downtown Business Association:**
 - Do not support reducing base container limit from seven (7) cans/bags to four (4) cans/bags per week.
 - Do not support mandatory use of clear garbage bags due to concern about enforcement and mixed-use properties.
 - Request for increased organics/recycling collection and review of days and times of collection for the enhanced collection area. Also request continued front-end cardboard collection bins.

Based on these comments, there was very limited support for the mandatory use of clear bags for garbage, or the reduction in the garbage container limits for IC&I and

MU properties inside the DBAs. The exception was the Pelham Business Association, which supported all proposed options.

4.0 Local Area Municipalities (LAMs)

Formal comments from the LAMs on the proposed collection options and which enhanced services to be included in Niagara Region's next contract are being requested by February 1, 2019.

5.0 Residents and Businesses

The primary method for collecting input from residents and businesses on the proposed collection options was through the on-line survey. Residents of low density residential properties were also targeted for feedback through a telephone survey.

Individuals that wanted to provide comments and feedback in addition to or as an alternative to the surveys were able to do so through a number of options. While this feedback cannot be included in the statistical analysis as representative of the population, it can be considered as part of the anecdotal findings to support the overall findings.

Residents and business owners provided additional comments by posting on Facebook, calling the Waste Info-Line, sending emails, providing web submissions and/or speaking with staff in-person at open house and community booth events. These comments are summarized in the subsections below.

5.1 Facebook

Facebook was the primary social media platform used by members of the public to comment on the proposed collection options for the next contract. The majority of comments were related to the proposed options for the mandatory use of clear garbage bags and every-other-week garbage collection. Of all of the comments documented that were related to every-other-week garbage collection, 22% of comments were in support of this proposed option. For clear garbage bags, 10% of comments related to this option were supportive.

Overall, the majority of commenters used this platform as a means of communicating their concerns. The comments posted on the Region's paid Facebook advertisement were reviewed, categorized and tallied. The ten most frequently reported concerns are listed below in order of the frequency that they

appeared in comment section. As of November 30, 2018, 1,467 Facebook comments were posted.

Most Common Comments (by % of most posted comments)

1. Concern about odours from products that cannot be placed in the Green Bin (i.e. diapers and raw meat packaging) increasing with every-other-week garbage collection (16%)
2. Concern about privacy with the use of clear garbage bags for personal items (i.e. incontinence products, feminine hygiene products, prescription bottles, bills) and that one opaque bag is not sufficient to contain all of these items (12%)
3. Concern that services are decreasing, but residents will not receive an associated decrease in taxes (10%)
4. Concern about a potential increase in pests (i.e. rats, raccoons, squirrels, coyotes, maggots) if garbage is collected every-other-week (10%)
5. Concern that mandatory use of clear garbage bags is adding unnecessary plastic waste to the landfills (8%)
6. Requests for Region to use carts, bigger containers and/or containers with lids (7%)
7. Complaints about current service, including missed collection (7%), late collection (7%) and generally displeased with service (4%)

Facebook Analytics for “Lets Talk Waste” Campaign:

• **Impressions: 271,397**

- The number of times any content from the “Niagara Region” Facebook page entered a person’s screen.

• **Link clicks: 6,633**

- The number of clicks on links within the “Lets Talk Waste” Facebook paid ad that led to the Niagara Region “Lets Talk Waste” webpage.

• **Reach as per analytics: 78,784**

- Number of people who had a paid post from the Niagara Region Facebook page enter their screen.

- **Reach with organic: 112,159**
 - Number of people who had an unpaid post from Niagara Region Facebook page enter their screen.
- **Cost per click: 2.44%**
 - The actual price paid for each click in the “Lets Talk Waste” Facebook paid ad campaign.
- **Total engagements: 19,733**
 - Includes all actions that people take involving the “Lets Talk Waste” Facebook paid ad while it was running. Post engagements can include actions such as reacting to, commenting or sharing the ad, or clicking on a link.
- **Reactions as per analytics: 367**
 - On the “Lets Talk Waste” Facebook paid ad itself, Facebook only reports direct reactions on those people who the ad was delivered to. So if a Facebook user received the ad and reacted, that is counted as one reaction per analytic. But if the Facebook user’s friend saw their feed (but did not receive the ad) reacted, it is not counted.
- **Comments as per analytics: 331**
 - On the “Lets Talk Waste” Facebook paid ad itself, Facebook only reports direct comments on those people who the ad was delivered to. So if a Facebook user received the ad and commented, that is counted as one comment per analytic. But if the Facebook user’s friend saw their feed (but did not receive the ad) commented, it is not counted.
- **All reactions: 561**
 - This is the total number of reactions on the “Lets Talk Waste” Facebook paid ad. This provides a better picture of the total engagement.
- **All comments: 1,467**
 - All comments (including replies) on the “Lets Talk Waste” Facebook paid ad.
- **Shares: 358**
 - The number of times Facebook users shared the “Lets Talk Waste” Facebook paid ad to their Facebook profile or a different Facebook page.
- **Amount spent: \$2,456.23**

5.2 Open Houses and Community Booths

A public open house, with a presentation was held in each of the twelve municipalities in Niagara. Staffed community booths with informational displays were also held in a public space in each municipality. The community booths were very

well attended with approximately 450 attendees and open house attendance was lower with 67 attendees, perhaps due to poor weather conditions.

The majority of the comments heard were related to the options for every-other-week garbage collection and mandatory use of clear garbage bags. Members of the public visiting the booths and open houses were divided about every-other-week garbage collection. While approximately half of the people that talked to staff at events expressed support, there were some specific concerns that were repeated throughout the consultation process. There was less support for clear bags, with the majority of participants expressing opposition to the option. A minority of the feedback and conversations at these events dealt with the options to introduce a four-item limit on bulky item collection and the discontinuation of scrap metal collection, but of those commenting there was a high level of support to implement the changes. The key concerns about the proposed options heard at these stakeholder consultation events are listed below.

Most Common Comments (listed in no particular order)

1. Concern about odours from products that cannot be placed in the Green Bin (i.e. diapers and raw meat packaging) increasing with every-other-week garbage collection
2. Concern that illegal dumping will increase as a result of every-other-week garbage collection and/or mandatory use of clear garbage bags.
3. Concern about privacy with the use of clear garbage bags for personal items (i.e. incontinence products, feminine hygiene products, prescription bottles, bills) and that one opaque bag is not sufficient to contain all of these items
4. Concern about the additional expense of having to purchase clear bags and/or privacy bags and potential issues with the quality and availability of clear garbage bags
5. Concern about storing additional garbage bags due to every-other-week garbage collection and/or clear garbage bags that are left behind due to unacceptable materials.
6. Concerns about the ability of collectors to monitor and enforce clear garbage bag contents

7. Concern about how residents will transport scrap metals and large appliances to the drop-off depots.
8. Concern about a potential increase in pests (i.e. rats, raccoons, squirrels, coyotes, maggots) if garbage is collected every-other-week
9. Concern that mandatory use of clear garbage bags is adding unnecessary plastic waste to the landfills
10. Complaints about current service, including missed collection, late collection, and generally displeased with service

6.0 Waste Info-Line, Emails, Web Submissions

Residents and business owners interested in providing the Region with additional comments were able to do so by calling the Waste Info-Line, sending an email or submitting their comments through the Region's website. Comments from individuals that provided an address were recorded in CityView, Waste Management's customer service software. These comments were categorized based on support or opposition to the proposed options. Comments from individuals that did not provide an address recorded in a public comment tracking sheet, separate from the CityView program. As of December 2, 2018, 38 comments were recorded in CityView and 27 additional comments without associated addresses were recorded in the spreadsheet public comment tracking sheet.

6.1 CityView

Due to the self-selected nature of the input and the small number of comments recorded, the CityView data cannot be considered representative of the viewpoints of the broader population. The comments do provide anecdotal insight into some of the key attitudes that residents and business owners have towards the proposed collection options.

The majority (74%) of individuals that commented were contacting the Region to express concern over one or more of the proposed collection options. The key concerns expressed in the comments align with those provided through Facebook and at the open houses/community booths. Individuals opposed to every-other-week garbage collection were concerned about potential odours and pests. Comments related to clear bags were focused on privacy issues. There were also

concerns from multi-residential and mixed-use property owners about tenants not complying with the diversion programs and thus presenting a challenge for both the every-other-week and clear garbage bag options.

Of the 38 comments recorded, 26% were in favour of one or all of the proposed options. In particular, 16% were in favour of every-other-week garbage collection. Other comments provided included suggestions for alternative options, including collection from alternating sides of the road and communal collection areas.

6.2 Additional Comments

The additional comments from residents and business owners that did not provide an address align with the comments provided through Facebook, at public consultation events and in CityView. The most frequent comments were concerns about odours and pests related to every-other-week garbage collection and privacy issues associated with clear garbage bags.

Appendix 5 - Stakeholder Consultation and Engagement Process

An extensive public consultation and engagement process was undertaken to obtain stakeholder input on the proposed base collection options for the next collection contract. The consultation began in May 2018 was carried out in two phases: targeted stakeholder consultation and broad-based community consultation. Targeted stakeholder consultation involved direct communication with specific stakeholder groups to provide information and gather feedback on the proposed collection options. Broad-based community outreach was completed to reach residents and businesses eligible for Regional curbside collection services to inform them about the proposed collection options and encourage participation in the on-line survey, which was the principle mechanism for collecting public input and feedback.

A summary of both phases of the consultation is described below.

1. Targeted Stakeholder Consultation and Engagement

1.1. Regional Departments and Agencies, Boards and Commissions (ABCs):

- The following Regional Departments and ABCs were contacted to discuss proposed options and invite questions, comments and input into the process:
 - Planning and Development Services Department
 - Economic Development
 - Niagara Regional Housing

1.2. Waste Management Advisory Committee (WMAC)

- At the November 21, 2018 meeting of the WMAC, members were provided with a presentation on the proposed collection options and an opportunity for questions and comments.
- Members were provided with an opportunity to vote on each proposed service option.

1.3. Organizations Representing Business

1.3.1. Business Improvement Associations (BIAs), Chambers of Commerce, Industrial Associations

- Waste Management staff met with each of Niagara's BIAs, Chambers of Commerce and the Niagara Industrial Association in August and September of 2018 to provide a presentation on the proposed service options. The purpose of these meetings was to discuss the proposed collection options, obtain preliminary input on these options, obtain input on how to further engage their members and to request formal comments

by November 30, 2018. The meeting dates and representatives that attended the meetings are listed in the tables below.

- Waste Management staff sent follow-up emails to each organization after the meetings on October 9, 2018 and November 22, 2018 to request formal feedback.
- Those organizations were also provided with letters for distribution to their membership on October 24, 2018. The letters contained information about the proposed options and stakeholder consultation process as well as a link to the on-line survey and open house/community booth dates and locations.
- The following four organizations confirmed they would reach out to members on behalf of the Region to encourage participation in the consultation process:
 - St. Catharines Downtown Association, Queen Street Niagara Falls BIA, Downtown Welland BIA, Grimsby Downtown Improvement Association

Business Improvement Associations

LAM Represented	Organization/Representative	Meeting Date
Fort Erie	<ul style="list-style-type: none"> • Ridgeway Business Improvement Association (BIA) - Marge Ott • Crystal Beach BIA – No rep attended • Bridgeburg Station BIA – No rep attended • Town of Fort Erie – Kelly Walsh 	August 23, 2018
Grimsby	<ul style="list-style-type: none"> • Grimsby Downtown Improvement Association – Leigh Jankiv • Town of Grimsby – Bob LeRoux 	August 1, 2018
Lincoln	<ul style="list-style-type: none"> • Downtown Beamsville BIA – Stephanie Hicks • Town of Lincoln – Dave Graham 	August 10, 2018
Niagara Falls	<ul style="list-style-type: none"> • Clifton Hill BIA – No rep attended • Fallsvie BIA – Sue Mingle • Lundy's Lane BIA – David Jankovic • Main and Ferry BIA – Ruth Ann Nieuwesteeg • Victoria Centre BIA – Eric Marcon • Queen Street BIA – No rep attended • City of Niagara Falls – Geoff Holman 	August 15, 2018
Pelham	<ul style="list-style-type: none"> • Pelham Business Association – David Tucker • Town of Pelham – Derek Young & Ryan Cook 	August 8, 2018

LAM Represented	Organization/Representative	Meeting Date
Port Colborne	<ul style="list-style-type: none"> • Port Colborne Main Street BIA – Frank Danch • Port Colborne Downtown BIA – Betty Konc • Town of Port Colborne – Chris Lee 	August 24, 2018
Port Dalhousie	<ul style="list-style-type: none"> • Port Dalhousie Business Association – Wolfgang Guembel 	August 22, 2018
St. Catharines	<ul style="list-style-type: none"> • St. Catharines Downtown Association - Tisha Polocko • City of St. Catharines – Dan Dillon 	August 22, 2018
Thorold	<ul style="list-style-type: none"> • Thorold BIA – Marsha Coppola, Tim Whalen • City of Thorold – Sean Dunsmore 	August 2, 2018
Welland	<ul style="list-style-type: none"> • Welland Downtown BIA – Amanda MacDonald, Delores Wright • Welland North BIA – John Clark • City of Welland – Eric Nickel 	August 9, 2018

Chambers of Commerce

LAM Represented	Organization/Representative	Meeting Date
Niagara-on-the-Lake (NotL)	<ul style="list-style-type: none"> • Chamber of Commerce – Janice Thompson • Town of NotL – Sheldon Randall 	September 10, 2018
Fort Erie, Grimsby, Lincoln, Niagara Falls, NotL, Pelham, Port Colborne, St. Catharines, Welland, West Lincoln	<ul style="list-style-type: none"> • Greater Niagara Chamber of Commerce - Mishka Balsom 	September 13, 2018

Fort Erie, Grimsby, Lincoln, Niagara Falls, Pelham, Port Colborne, Welland, West Lincoln	<ul style="list-style-type: none"> Niagara Chamber of Commerce Partnership – Rebecca Shelley (Grimsby); Johnathan George (Fort Erie); Paul Scottile, Jim Arnold (Niagara Falls); Denise Potter (West Lincoln); Len Stolk (Port Colborne/Wainfleet); Gary Bruce, Anna Murre (Lincoln); Delores Fabiano (Welland/Pelham, Niagara Falls, Fort Erie, Port Colborne/Wainfleet) 	August 22, 2018
Thorold	<ul style="list-style-type: none"> Venture Niagara – Susan Morin Niagara Centre Board of Trade & Commerce – John D’Amico 	September 26, 2018

Industrial Associations

LAM Represented	Organization/Representative	Meeting Date
All Niagara Municipalities	<ul style="list-style-type: none"> Niagara Industrial Association – Adam Joon & Aaron Tisdelle 	September 21, 2018

1.3.2. Tourism Agencies

- Waste Management staff met with the Tourism Partnership of Niagara on behalf of five tourism agencies (Destination Marketing Organizations): Niagara Falls Tourism, Tourism Niagara-on-the-Lake, City of St.Catharines Department of Economic Development and Tourism, Twenty Valley Tourism Association and Niagara South Coast Tourism Association.
- Staff offered to provide a presentation at the meeting.
- On September 18, 2018, letters were provided to each tourism agency describing proposed options, audit data, info about survey and public events. The letter requested formal feedback on the proposed options by December 7, 2018.
- A follow-up email containing a link to the project website and on-line survey was sent to the Tourism Partnership of Niagara on November 23, 2018, for distribution to their membership.

Tourism Agencies

LAM Represented	Organization/Representative	Meeting Date
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Fort Erie, Grimsby, Lincoln, Niagara Falls, Niagara-on-the- Lake, Port Colborne, St. Catharines, Welland, West Lincoln	<ul style="list-style-type: none"> • Tourism Niagara – Anthony Annunziata & Karin Jahnke-Haslam (on behalf of Niagara Falls Tourism, Tourism Niagara-on-the-Lake, City of St.Catharines Department of Economic Development and Tourism, Twenty Valley Tourism Association and Niagara South Coast Tourism Association) 	September 18, 2018
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1.4. Local Area Municipalities (LAMs) (i.e. municipal staff and Councillors)

- Letters were sent to LAM Clerks on May 4, 2018 and Public Works Officials (PWOs) on June 6, 2018 advising of proposed options and requesting LAM comments by February 1, 2019
- Presentations were made to PWOs at their June 11, Oct. 16 & Dec. 11, 2018 meetings
- In addition, Region staff offered to attend LAM Committee or Council meetings to make a presentation. As of December 11, Region staff were requested to present at the following LAM Committee or Council meetings:
 - Grimsby Council (December 17, 2018)
 - Niagara Falls Council (January 15, 2019)
 - Fort Erie Council (January 21, 2019)
 - West Lincoln Council (January 21, 2019)
 - Welland General Committee (January 22, 2019)

2. Broad-Based Community Consultation and Engagement

Broad-based community consultation employed a range of outreach activities to engage with as many low density residential (LDR) households, multi-residential (MR) property owners, groups and associations (i.e. property management companies) and Industrial, Commercial and Institutional (IC&I) and mixed-use (MU) property owners as possible during October and November of 2018. The table below provides details on each outreach activity undertaken as part of the broad-based consultation and engagement.

Outreach Activity	Description	Location	Date (2018)
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Letters	Letters mailed out containing information on proposed collection options, link to survey, open house/community booth information and an invitation to contact the Region	<ul style="list-style-type: none"> • 1,369 businesses <u>inside</u> Designated Business Areas (DBAs) • 1,980 businesses <u>outside</u> DBAs • 125 multi-residential properties 	October 22
Web	Project website provided information on the proposed collection options, details about public open house events/community booths and the link to the survey	• Project webpage on Niagara Region website	October 23, to November 30
	Link to project website	<ul style="list-style-type: none"> • Webpage banner on Niagara Region Waste webpage • LAM provided with P&E for websites that had link to project webpage 	
Social Media	Link to project website	<ul style="list-style-type: none"> • Facebook paid advertisement with link to project webpage • Twitter post on Niagara Region Twitter with link to project webpage 	October 25- November 28
	Link to project website and details about open houses/community booths	• Facebook posts	November 1- November 28
Newspaper: Print Ads	Invitation to participate in stakeholder consultation with link to project website	• Niagara This Week	October 25, November 1, 8, 15, 22
		• St. Catharines Standard	October 27, November 10,
		• Welland Tribune	November 3,
		• Niagara Falls Review	November 3,
		• News Now	November 15 and November 22

Newspaper: On-line Ads	Invitation to participate in stakeholder consultation with link to project website	• 24 hour ad - St. Catharines Standard, Welland Tribune, Niagara Falls Review websites	October 30, November 6,13, 20
		• 24 hour ad - Niagara This Week website	November 24
		• 1 week ad - News Now website	November 22-29, 2018
		• 2 week ad - Niagara Independent website	November 19-30
		• Big Box Takeover- St. Catharines Standard, Welland Tribune, Niagara Falls Review	October 30, November 5,11,20
Media Coverage	An overview of proposed options and rationale and reference to project webpage, survey and events	• Media release	October 25
		• Radio interview on 610 CKTB Newstalk	November 5
		• Television coverage on Cogeco YourTV; accessible on-line and aired daily on YourTV	November 5 - November 30
		• Articles - St. Catharines Standard/Niagara Falls Review, Voice of Pelham, Erie Media	October 28, November 5, 7, 23
Post Cards	Invitation to participate in consultation, list of key options and link to survey/webpage	<ul style="list-style-type: none"> • Post cards displayed at LAM offices: 100 each in Fort Erie, Grimsby, Lincoln, Niagara-on-the-Lake, Pelham, Port Colborne, Thorold and Wainfleet; 200 each in Niagara Falls, St.Catharines and Welland. • Post cards available at Regional Headquarters and landfill sites • Post cards distributed at every community booth and open house 	October 23-November 30
Internal Advertising	Campaign banner and link to survey/webpage	• Vine intranet for all Regional employees	October 31-November 30

		<ul style="list-style-type: none"> • Vine weekly for all Regional employees 	November 1
Community Booths	A table with educational material and poster boards with information on proposed options were set up in public spaces including malls, arenas, community centres and libraries. Staff were available with iPads to allow visitors complete the on-line surveys and to respond to questions and comments	<ul style="list-style-type: none"> • One booth in each LAM during day and/or evening hours 	Each booth set up for one day in each LAM between Oct 30 –Nov 26 Approx. 450 visitors in total at booths
Open Houses	Staff provided a 25-minute presentation and the opportunity for a question and answer period. Staff were also available with iPads to allow attendees to complete the on-line survey to respond to questions and comments	<ul style="list-style-type: none"> • One open house in each LAM from 6pm-8pm 	Various dates from Nov 1- Nov 28 Total of 67 attendees



Appendix 8

LDR Telephone and On-line Survey Results

A quantitative survey with residents of Niagara Region



Metroline Research Group Inc.

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LOW DENSITY RESIDENTIAL

1.0 Current Attitudes/Behaviour

1.1 Importance of Waste Diversion

Q11 - How important would you say it is that Niagara region works to reduce the amount of garbage that is sent for disposal? (Full sample)

Diverting waste is important to the vast majority of residents in Niagara Region. In total, 94% of those in the telephone survey said it is 'important' to them, with 72% saying "very" important, and 22% saying "somewhat" important. Only 4% told us it was "not important", or they "don't know".

Residents in the online survey scored the importance slightly lower, but even still 87% find waste diversion important.

Figure 1.1a – Importance of waste diversion by survey type

	Telephone (n=1,253)	Online (n=6,639)
Very important	72%	52%
Somewhat important	22%	35%
Not very important	3%	8%
Not important at all	2%	3%
Don't know	1%	2%

This question was asked in Hamilton in 2016, and the results were similar to what Niagara Region residents have said in this survey. Residents in both surveys feel that waste diversion is important, but in the random telephone survey are more likely to say it is "very" important.

Figure 1.1b ¹– Importance of waste diversion by survey type (Hamilton)

<i>Hamilton Waste Survey</i>	Telephone (n=800)	Online (n=1,468)
Very important	75%	60%
Somewhat important	21%	30%
Not very important	2%	6%
Not important at all	1%	3%
Don't know	1%	1%

¹ City of Hamilton Waste Management Services Public Engagement Survey – Metroline Research Group, 2016

Where relevant, this report will indicate statistically significant differences by sub-groups for the random telephone survey.

Respondent Sub-Segment Findings (Telephone)

- Women (76%) are more likely to say reducing the amount of garbage sent for disposal is “very” important than men (68%).
- Those 65+ years (76%) and those 45-64 years (73%) are more likely to find it “very” important than those 18-44 years (63%).
- Those participating in the organics collection program (74%) are more likely to find it “very” important than those who are not (67%).
- Those who support clear bags (80%) more likely to find it “very” important than those who do not (65%).
- Those who could manage every-other-week (EOW) garbage collection (80%) are more likely to find it “very” important than those who would continue to need/want weekly collection (64%).

Figure 1.1c - Importance of waste diversion by municipality

(Random telephone survey)	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
Very important	72%	81%	73%	83%	74%	80%	76%	73%	68%	61%	60%	69%	73%
Somewhat important	22%	14%	17%	13%	22%	16%	19%	19%	24%	31%	32%	24%	22%
Not very important	3%	3%	3%	1%	2%	2%	4%	4%	4%	4%	5%	3%	4%
Not important at all	2%	2%	3%	3%	1%	--	--	1%	4%	3%	3%	2%	1%
Don't know	1%	--	4%	--	1%	2%	1%	3%	--	1%	--	2%	--

Looking across the municipalities in Niagara Region, there are some differences when residents were asked to choose an importance level. Primarily though this difference is between “very” and “somewhat” important.

Overall, the sentiment of important (very/somewhat) vs. not important (not very/not important/don't know) is pretty similar. At least 9 in 10 residents for all municipalities find diverting waste to be ‘important’.

1.2 Garbage Limits

Q12 - Niagara Region allows for one bag/container of garbage to be put out per week. Dimensions of the container cannot exceed three feet high by two feet wide (91cm by 61cm) and must not weight more than 50 pounds. Which of the following best describes your situation in an average week? (Full Sample)

Figure 1.2a – Typical garbage set out by survey type

	Telephone (n=1,253)	Online (n=6,639)
We put out more than one garbage bag/container	11%	9%
We put out one full garbage bag/container	42%	49%
On a weekly basis, our garbage bag/container is not completely full	34%	29%
Some weeks, we do not have enough to put out the garbage bag/container	13%	13%

Residents were pretty much evenly split about how much garbage they put out at the curb in an average week.

On one side is the group (53% combined) who put out the maximum one bag (42%) and those who need more than one bag (11%).

On the other side (47% combined) is the group who doesn't have a full bag (34%) or sometimes can afford to skip a week (13%).

Respondent Sub-Segment Findings (Telephone)

- Those 18-44 years are more likely to put out a full bag or more (72%) than those 45-64 years (50%) and those 65+ years (45%).
- Those living in households of three or more people are more likely (73%) to put out a full bag or more than those in households of two people (41%) and those in single person households (30%).
- Those with a household member using diapers are more likely to put out a full bag or more (87%) than those without (51%).
- Those who use seven or more bag tags a year are more likely to put out a full bag or more (91%) than those who use 1-6 tags (61%) and those use don't use any tags in an average year (42%).
- Those who do not participate in the organics program are more likely to put out a full bag or more (63%) than those who participate (49%).
- Those who would need to continue weekly garbage collection are more likely to put out a full bag or more (70%) than those who could manage EOW (33%).

Figure 1.2b – Typical garbage set out by municipality

(Random telephone survey)	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
We put out more than one garbage bag/ container	11%	7%	11%	8%	13%	9%	10%	4%	11%	11%	16%	14%	8%
We put out one full garbage bag/container per week	42%	45%	35%	35%	44%	43%	34%	45%	41%	50%	39%	46%	49%
On a weekly basis, our garbage bag/container is not completely full	34%	30%	37%	45%	34%	34%	44%	39%	35%	24%	32%	25%	34%
Some weeks, we do not have enough to put out the garbage bag/container	13%	18%	17%	12%	9%	14%	12%	12%	13%	15%	13%	15%	9%

All percentage differences fall within the margin of error. There are a few trends in the data, however these could potentially be a result of the size of the households interviewed for the study rather than something unique to the municipalities:

- Residents of Thorold (60%), Welland (60%) and Niagara Falls (57%) are slightly higher in putting out one bag or more per collection.
- Residents of Lincoln (43%) and Pelham (44%) and Grimsby (46%) are slightly lower in putting out one bag or more per collection.

1.3 Garbage Tags

Q13 - How many tags for additional garbage bags does your household buy and use in an average year, if any? (Full Sample)

About two-thirds of the community (65%) told us they do not buy/use any garbage tags in the course of an average year.

About one-third (35%) will use a garbage tag at least once a year on average, between those buying and using one to six tags (24%), and those using seven or more tags (11%).

Figure 1.3a – Garbage tags used by survey type

(Random telephone survey)	Telephone (n=1,253)	Online (6,639)
None	65%	49%
1-6	24%	32%
7+	11%	19%

Respondent Sub-Segment Findings (Telephone)

Household size was the biggest determinant in using garbage tags. About half of those (48%) of household with three or more people require at least one tag a year. 20% of households with three or more people use seven or more tags a year.

Figure 1.3b – Garbage tags used by household size

(Random telephone survey)	Total (n=1,253)	Household Size		
		1	2	3+
None	65%	86%	72%	52%
1-6	23%	10%	23%	28%
7+	12%	4%	5%	20%

Age is also a determining factor. The younger the resident in the survey, the more likely they were to have used bag tags.

Figure 1.3c – Garbage tags used by age group

(Random telephone survey)	Total (n=1,253)	Age group		
		18-44	45-64	65+
None	65%	54%	62%	78%
1-6	23%	25%	27%	17%
7+	12%	21%	11%	5%

Other significant findings:

- Those who deal with infant/adult diapers (53% use at least one a year) are more likely to need bag tags than those without diapers (33% use at least one per year).
- Those who need to put out more than one bag of garbage per week are more likely to use at least one bag tag per year (67%) than those who put out one bag per week (41%), those who put out a bag per week that isn't full (26%), and those who can afford to occasionally skip a week (12%).
- Those who need to continue having garbage picked up weekly are more likely to use at least one bag tag per year (41%) than those who could manage every-other-week (27%).

Figure 1.3d – Garbage tags used by municipality

(Random telephone survey)	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
None	65%	69%	69%	74%	61%	69%	77%	60%	62%	60%	75%	58%	73%
1-6	23%	21%	19%	21%	25%	24%	19%	32%	24%	24%	16%	29%	20%
7+	12%	10%	12%	5%	14%	7%	4%	8%	14%	16%	9%	13%	7%

Municipalities less likely to have used any garbage tags in the past year:

- Pelham (23%), Wainfleet (25%), Lincoln (26%) and West Lincoln (27%)

Municipalities more likely to have used a garbage tag in the past year:

- Welland (42%), Thorold (40%), Niagara Falls (39%) and St. Catharines (38%)

1.4 Waste Collection Participation

Q21 – Does your household put out the following items for curbside collection?
(Full sample)

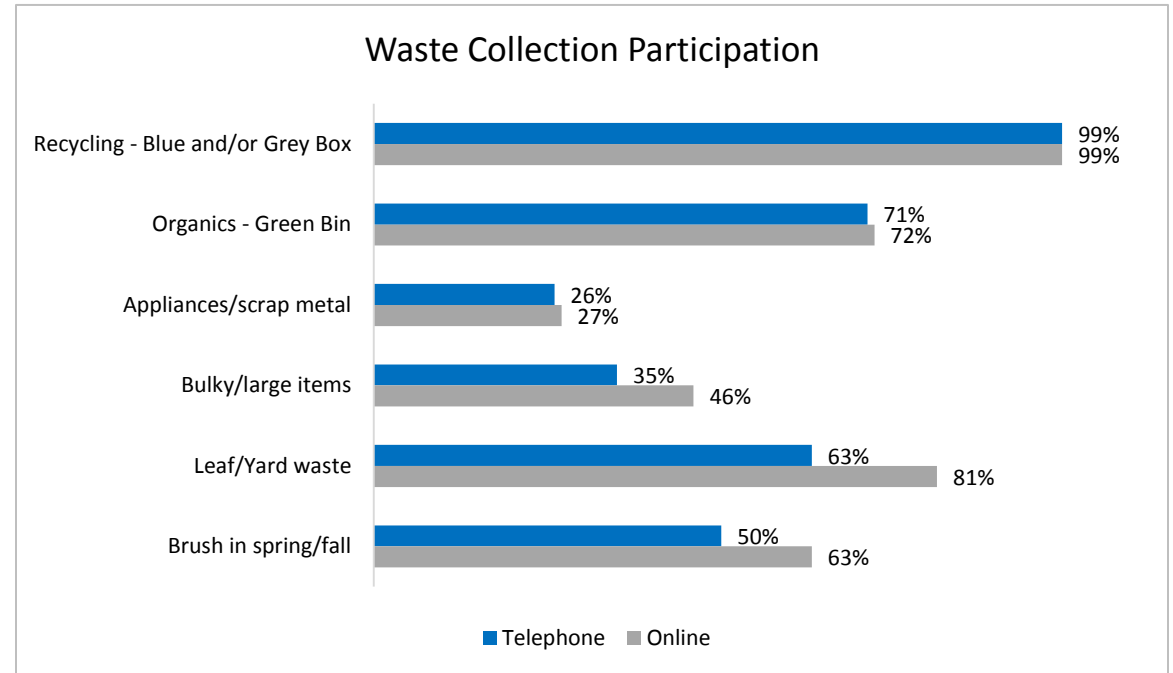
Virtually all households in Niagara Region are participating in the recycling program (99%/99%).

About 7 in 10 households say they participate in the organics collection program. The participation level is virtually the same between the random telephone survey and the online survey (71%/72%).

Participation in leaf/yard waste collection is next (63%/82%), and the brush collection in spring and fall (52%/63%).

Participation in both the appliances/scrap metal collection (26%/27%), and the bulky/large item collection (35%/46%) is lower.

Figure 1.4a – Waste collection program participation by survey type



The percentages were different, but we found a similar sentiment/pattern in Hamilton in 2016.

Virtually all participate in recycling, the organics collection and yard waste collection (which included brush in this survey) were next, and the bulky/large item collection (which includes scrap metal/appliances) had the lowest participation.

Figure 1.3b ²– Waste collection program participation by survey type (Hamilton)

<i>Hamilton Waste Survey</i>	Telephone (n=800)	Online (n=1,468)
Blue Box recycling	99%	99%
Organics/Green Bin	83%	84%
Yard waste	80%	88%
Bulky/large item collection	45%	55%

Respondent Sub-Segment Findings (Telephone)

Participate in Organics/Green Bin collection

- Those 65+ years (77%) and 45-64 years (73%) are more likely to participate than those 18-44 years (55%).
- Those in a single person household (72%) and dual person household (74%) are more likely to participate than those in a household of three or more people (66%).
- Those with no household members using diapers (72%) are more likely to participate than those with a household member in diapers (50%).
- Those who can afford to skip a weekly collection (81%), and those who put out a garbage bag every week that isn't full (76%) are more likely to participate than those who put out a full bag every week (68%) or those who put out more than one bag (52%).
- Those who can manage every-other-week collection (77%) are more likely to participate than those who need to continue having their garbage collected every week (66%).

Participate in bulky/large item collection

- Those in households of three or more (37%) and two people (35%) are more likely to participate than those in single person households (28%).
- Those who use seven or more bag tags per year (45%) or 1-6 bag tags (44%) are more likely to participate than those who do not use bag tags in an average year (30%).

² City of Hamilton Waste Management Services Public Engagement Survey – Metroline Research Group, 2016

Participate in leaf/yard waste pickup

- Those who could manage garbage collection every-other-week are more likely to participate (67%) than those who need to continue having garbage picked up weekly (61%).
- Those who participate in organics collection are more likely to participate in leaf/yard waste pickup (71%) than those who do not participate in organic collection (45%).

Participate in brush pickup

- Those who could manage garbage collection every-other-week are more likely to participate (54%) than those who need to continue having garbage picked up weekly (47%).
- Those who participate in organics collection are more likely to participate in brush pickup (56%) than those who do not participate in organic collection (36%).

Figure 1.4c – Waste collection program participation by municipality

(Random telephone survey)	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
Recycling – Blue and/or Grey Box	99%	99%	100%	99%	100%	97%	99%	99%	100%	97%	96%	98%	99%
Organics – Green Bin	71%	63%	84%	73%	72%	73%	70%	75%	74%	74%	59%	64%	60%
Appliances/Scrap Metal	26%	16%	36%	19%	35%	24%	19%	19%	34%	30%	23%	24%	7%
Bulky/Large Items	35%	36%	36%	27%	42%	28%	29%	31%	44%	41%	25%	36%	14%
Leaf/Yard Waste	63%	45%	77%	55%	73%	58%	59%	55%	82%	70%	19%	68%	35%
Brush in spring/fall	50%	32%	53%	45%	60%	52%	43%	35%	69%	55%	12%	50%	28%

Participation rates in the different programs vary by municipality. Some of this may be a result of their geographical location. Municipalities in areas that are less urban may have residents with larger properties to manage their own composting and leaf/yard waste or brush disposal, for example.

1.5 Recycling Participation

1.5.1 Blue Boxes

Q22 - Blue Box recycling includes containers that are made of plastic, metals, glass or styrofoam. How many Blue Boxes does your household put out at the curb in an average week? (Base – Converted to full sample)

Virtually all residents (99%) of Niagara Region are participating in the recycling program.

97% of residents in the telephone survey are putting out at least one blue box per week. About 1 in 5 residents puts out two or more blue boxes per week.

Figure 1.5.1a – Number of Blue Boxes by survey type

	Telephone (n=1,253)	Online (n=6,639)
None/Not participating in program	1%	1%
Less than once a week	2%	--
One per week	78%	70%
Two or more per week	19%	29%

Respondent Sub-Segment Findings (Telephone)

- Household size was a primary factor in the number of blue boxes. Households of three or more people are most likely to be putting out two or more boxes (34%), compared to two person households (9%) and single person households (3%).
- Those 18-44 years (29%) are most likely to be putting out two or more boxes, compared to those 45-64 years (23%) and those 65+ years (7%).
- Those buying the most (7+) garbage tags per year are also most likely to put out 2+ blue boxes (42%), compared to those who buy 1-6 tags (20%), and those who do not use garbage tags (15%).
- Those who would need to continue having waste collected weekly are most likely to be putting out two or more blue boxes (22%), compared to those who could manage every-other-week collection (16%).

Figure 1.5.1b – Number of Blue Boxes by municipality

(Random telephone survey)	Total (n=1253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
None/Not participating	1%	2%	1%	1%	1%	4%	3%	1%	--	4%	4%	2%	1%
Less than once a week	2%	--	2%	3%	1%	3%	--	1%	1%	--	--	4%	--
One per week	78%	85%	81%	84%	79%	75%	77%	82%	80%	74%	71%	71%	75%
Two or more per week	19%	13%	16%	12%	19%	18%	20%	16%	19%	22%	25%	23%	24%

Across all municipalities, there is not much difference when looking at the percentage of households who put out at least one blue box per week on average. Niagara-on-the-Lake was lowest, but even there it was 93% of households.

1.5.2 Grey Boxes

Q24 – Grey Box recycling includes items such as paper, cardboard, cereal boxes, tissue boxes, etc., and bundled plastic bags. How many Grey Boxes does your household put out at the curb in an average week? (Base – Converted to full sample)

Almost all Niagara residents are participating in the grey box recycling program as well. Slightly fewer (92%) than the blue box (99%) participation.

92% of Niagara low-density households put out at least one grey box per week on average.

Residents are less than half as likely (8%) to put out two or more grey boxes than blue boxes (19%).

Figure 1.5.2a – Number of Grey Boxes by survey type

	Telephone (n=1,253)	Online (6,639)
None/Not participating in program	6%	2%
< 1 x week	2%	1%
One per week	84%	81%
Two or more per week	8%	16%

Respondent Sub-Segment Findings (Telephone)

- Household size a factor once again. Those in households of three or more people are most likely (14%) to put out two or more grey boxes, compared to two person households (4%) and single person households (2%).
- Those 18-44 years are most likely to put out two or more grey boxes (14%), compared to those 45-64 years (9%) and those 65+ years (2%).
- Those buying the most (7+) garbage tags per year are also most likely to put out 2+ grey boxes (20%), compared to those who buy 1-6 tags (8%), and those who do not use garbage tags (6%).

Figure 1.5.2b – Number of Grey Boxes by municipality

<i>(Random telephone survey)</i>	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
None / Not participating	6%	8%	4%	5%	4%	8%	4%	4%	3%	8%	13%	4%	12%
< 1 per week	2%	--	1%	3%	3%	3%	4%	4%	1%	--	1%	3%	--
One per week	84%	91%	88%	87%	85%	81%	84%	84%	85%	84%	79%	84%	80%
Two or more per week	8%	1%	7%	5%	8%	8%	8%	8%	11%	8%	7%	9%	8%

As with the blue box recycling, there is no difference statistically by municipality. Only two municipalities are below 90% of residents putting out at least one grey box in an average week – Wainfleet (86%) and West Lincoln (88%).

1.6 Green Bin/Organics Participation

Q26 – Green Bin organics program includes food waste, paper napkins/towels/bags, paper take-out trays/egg cartons, coffee grounds/filters & tea bags. How many Green Bins or containers marked as organics does your household put out at the curb in an average week? (*Base – Converted to full sample*)

About 7 in 10 (71%) of Niagara Region residents told us they are participating in the organics collection program. That number dropped slightly when looking at green bins in an average month, to 69%.

68% of residents in the telephone survey told us they put out at least one green bin per week. In this particular question, the finding of the online survey was similar, where 70% told us they are putting out one green bin per week on average.

Figure 1.6a – Number of Green Bins by survey type

(Random telephone survey)	Telephone (n=1,253)	Online (n=6,639)
None / Not participating	31%	29%
Less than one per week	1%	1%
One per week	63%	63%
Two or more per week	5%	7%

Respondent Sub-Segment Findings (Telephone)

- Those 65+ years (73%) and 45-64 years (70%) are more likely to put out at least one green bin per week than those 18-44 years (53%).
- Those using diapers for someone in their household (49%) are less likely to put out at least one green bin per week than those with no diapers in their household (69%).
- Those who do not use any garbage tags in an average year (68%) and those who use 1-6 garbage tags per year (70%) are more likely to put out at least one green bin per week than those who use 7+ garbage tags per year (57%).
- Those who would need to continue having waste collected weekly (62%) are less likely to put out one or more green bins per week compared to those who could manage every-other-week collection (73%).
- Those who feel there would be little to no impact to their household with every-other-week collection (72%) are more likely to be putting out at least one green bin per week than those who feel every-other-week would have at least some impact (62%).

- Those who can afford to skip a week on garbage collection occasionally (77%), and those who put out less than one full bag/container per week (73%) are more likely to be putting out at least one green bin per week, compared to those who put out one full bag/container per week (65%) and those who put out more than one full bag/container per week (48%).

Figure 1.6b – Put out one or more Green Bins by typical garbage set out

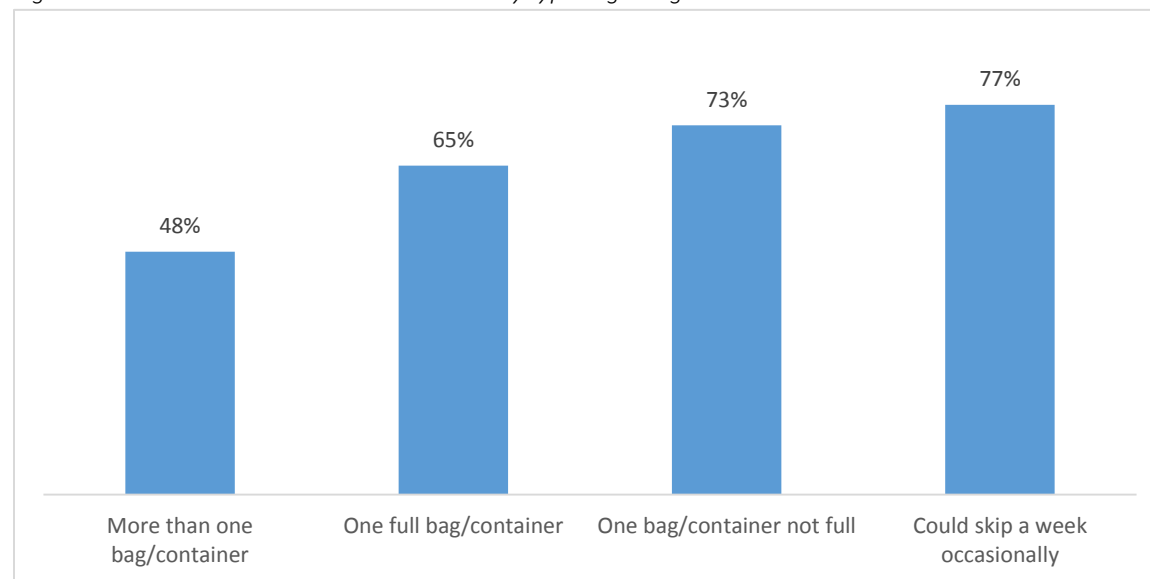


Figure 1.6c – Number of Green Bins by municipality

(Random telephone survey)	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
None / Not participating	31%	39%	17%	28%	28%	27%	32%	29%	28%	27%	45%	36%	46%
< 1 per week	1%	1%	2%	--	1%	3%	--	1%	1%	3%	--	3%	--
One per week	63%	57%	76%	72%	65%	61%	62%	56%	65%	66%	51%	58%	54%
Two or more per week	5%	3%	5%	--	6%	9%	6%	14%	6%	4%	4%	3%	--

1.6.1 Not participating in Green Bin/Organics collection

Q28 – Why do you not participate in the Green Bin/Organics program? (Base – Not participating)

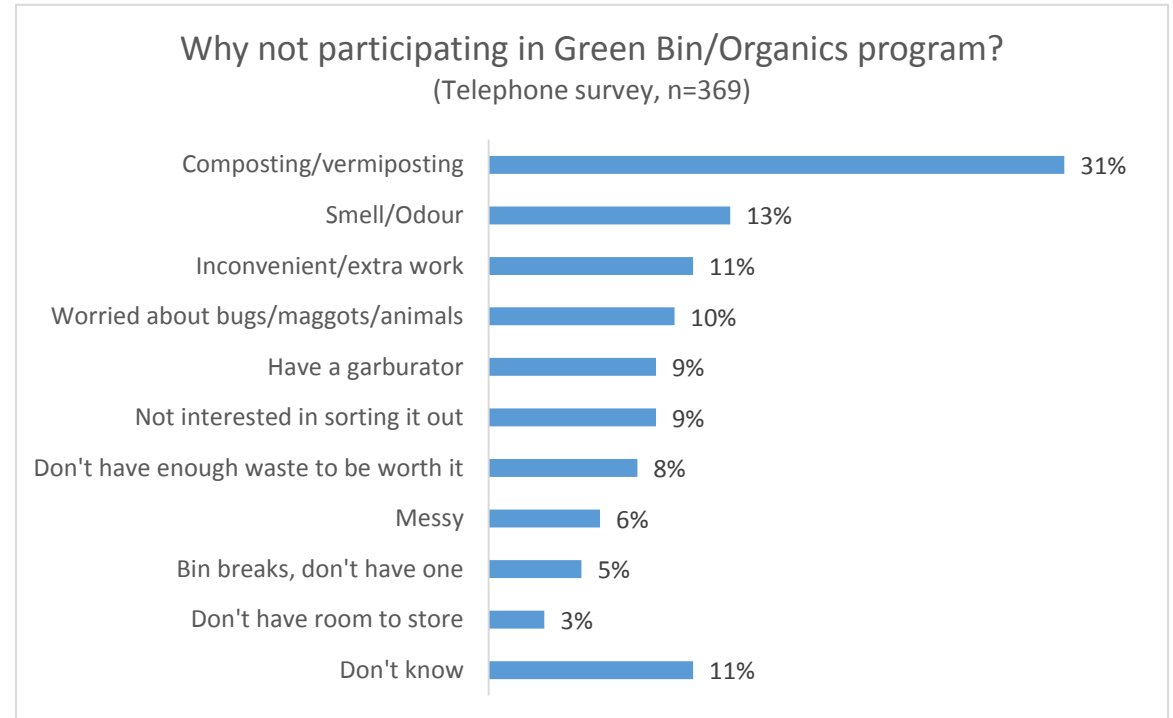
Figure 1.6.1a – Why not participating in Green Bin/Organics program?

Just under a third (31%) of those not participating in the Green Bin/Organics program told us they are doing their own composting/vermiposting.

“We have a farm and dispose of it in our manure pile...”

The next biggest barrier to participating in the Green Bin/Organics program is a concern about smells/odours. 13% of those not participating in this program indicated they do not participate because of a worry about the smell.

“It smells awful. We freeze organic waste throughout the week and dispose with the trash on garbage day. You can always tell when someone uses the green organics bin as soon as you walk into their house. It isn't practical...”



Lack of motivation was third, with people telling us that separating the waste was inconvenient or extra work for them (11%).

“Waste of time separating items and keeping another bin full of stinking food around for rodents and insects to find...”

The other major barrier is a concern about bugs/maggots/animals in and around the green bin (10%).

“Many animals in my neighbourhood makes it difficult to keep the organics from being eaten. I have the same problem with my regular garbage container...”

The ‘ick’ factor was expressed as well, with 6% talking about the process being messy and 9% not being interested in sorting out the waste for the Green Bin.

“I find it gross and disgusting...”

“Because I do not have very much for the green bin and find it disgusting to deal with in the summer...”

1.7 Appliances/Scrap Metal Participation

1.7.1 Put out at the curb

Q29 - How many times per year would you say your household puts out appliances or scrap metal at the curb for collection? (Base –Converted to full sample)

4 in 5 households in Niagara Region (80%) told us they do not participate in the appliances/scrap metal collection program. Among those who have participated, at most it was about once a year.

The results of the online survey are similar in this case, with 75% not participating in the program.

Figure 1.7a – Appliance/Scrap Metal participation by survey type

	Telephone (n=1,253)	Online (n=6,369)
None / Not participating	80%	75%
Once per year	15%	15%
Twice or more per year	5%	10%

Respondent Sub-Segment Findings (Telephone)

- Those 18-44 years (21%) and those 45-64 years (22%) are more likely than those 65+ years (15%) to participate in the program at least once a year on average.
- Those with households of three or more people (23%) and households of two people (20%) are more likely than those in single person households (13%) to participate in the program at least once a year on average.
- Those who use 7+ garbage tags per year (27%) and those who use 1-6 garbage tags per year (25%) are more likely than those who do not use garbage tags (17%) to participate in the program at least once a year on average.

Figure 1.7a – Appliance/Scrap Metal participation by survey type

(Random telephone survey)	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
None / Not participating	80%	86%	73%	85%	75%	81%	85%	84%	75%	77%	81%	84%	95%
Once per year	15%	11%	23%	15%	16%	18%	8%	8%	19%	19%	16%	11%	4%
Twice or more per year	5%	3%	4%	--	9%	1%	7%	8%	6%	4%	3%	5%	1%

1.7.2 Scheduling a pick up

Q210 - Do you schedule a pick up with Niagara Region for scrap metal or appliances, or put them out at the curb for anyone to pick up without scheduling a pick up? (Base – Participate at least once a year on average)

Those who participate in the appliances/scrap metal program at least once a year on average were asked how they arrange for pick up.

Three-quarters (74%) of program participants told us they schedule a pick up with Niagara Region, and one-quarter (26%) will simply put the item at the curb.

The online survey respondents felt similarly (77% scheduled, 23% leave at curb).

Figure 1.7.2a – Appliance/Scrap Metal pick up type by survey type

Note: Sample size varies according to participation rates and survey type	Telephone (n=249)	Online (n= 1,696)
Schedule a pick up	74%	77%
Leave out	26%	23%

Respondent Sub-Segment Findings (Telephone)

- Women (81%) were more likely than men (65%) to say they scheduled a pick up.
- Those 65+ years (88%) were more likely to have scheduled a pick up than those 45-64 years (72%) or those 18-44 years (64%).

Figure 1.7.2b – Appliance/Scrap Metal pick up type by municipality

Note: Sample size varies according to participation rates and survey type	Total (n=249)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
Schedule a pick up	74%	92%	90%	82%	69%	85%	73%	83%	69%	65%	79%	74%	75%
Leave out	26%	8%	10%	18%	31%	15%	27%	17%	31%	35%	21%	26%	25%

1.8 Bulky/Large Item Collection

1.8.1 Put out at the curb

Q211 - Bulky/large item collection includes items like carpet and furniture. How many times per year would you say your household puts out items like this out at the curb for collection? (Base – Converted to full sample)

More households (29%) do participate in bulky/large item collection compared to the scrap metal/appliances collection (20%).

In total, 29% of households told us they participate at least once a year, with the majority (19%) of households participating once a year, and 10% of households participating two or more times a year on average.

Those in the online survey told us they are participating more often.

Figure 1.8a – Bulky/Large Item collection by survey type

	Telephone (n=1,253)	Online (n=6,639)
None/not participating	71%	56%
Once per year	19%	20%
Twice or more per year	10%	24%

Respondent Sub-Segment Findings (Telephone)

- Those in households of three or more are more likely to participate at least once a year (33%), compared to households of two people (28%), or single person households (19%).
- Those who use 7+ garbage tags per year (43%) are more likely to participate at least once a year (43%), compared to those who use 1-6 garbage tags per year (38%) and those who do not use garbage tags (23%).

Figure 1.8b – Bulky/Large Item collection by municipality

	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
None	71%	71%	72%	83%	67%	78%	74%	72%	61%	66%	80%	70%	89%
Once per year	19%	19%	24%	13%	20%	14%	14%	15%	25%	27%	16%	18%	8%
Twice or more per year	10%	10%	4%	4%	13%	8%	12%	13%	14%	7%	4%	13%	3%

1.8.2 Scheduling a pick up

Q212 - Do you schedule a pick up with Niagara Region for these bulky/large items, or put them out at the curb for anyone to pick up without scheduling a pick up? (Base – Participate at least once a year on average)

Those participating in the bulky/large item pick up are most likely going to be scheduling a pick up with Niagara Region. 94% said they would schedule a pickup for bulky/large items, compared to 74% of those participating in scrap metal/appliances.

Figure 1.8.2a – Bulky/Large Item collection type by survey type

Note: Sample size varies according to participation rates and survey type	Telephone (n=365)	Online (n=2,943)
Schedule a pick up	94%	92%
Leave out	6%	8%

Figure 1.8.2b – Bulky/Large item collection type by municipality

Note: Sample size varies according to participation rates and survey type	Total (n=365)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
Schedule a pick up	94%	96%	95%	100%	97%	93%	100%	81%	92%	92%	100%	94%	87%
Leave out	6%	4%	5%	--	3%	7%	--	19%	8%	8%	--	6%	13%

2.0 Waste Collection Options For Next Contract

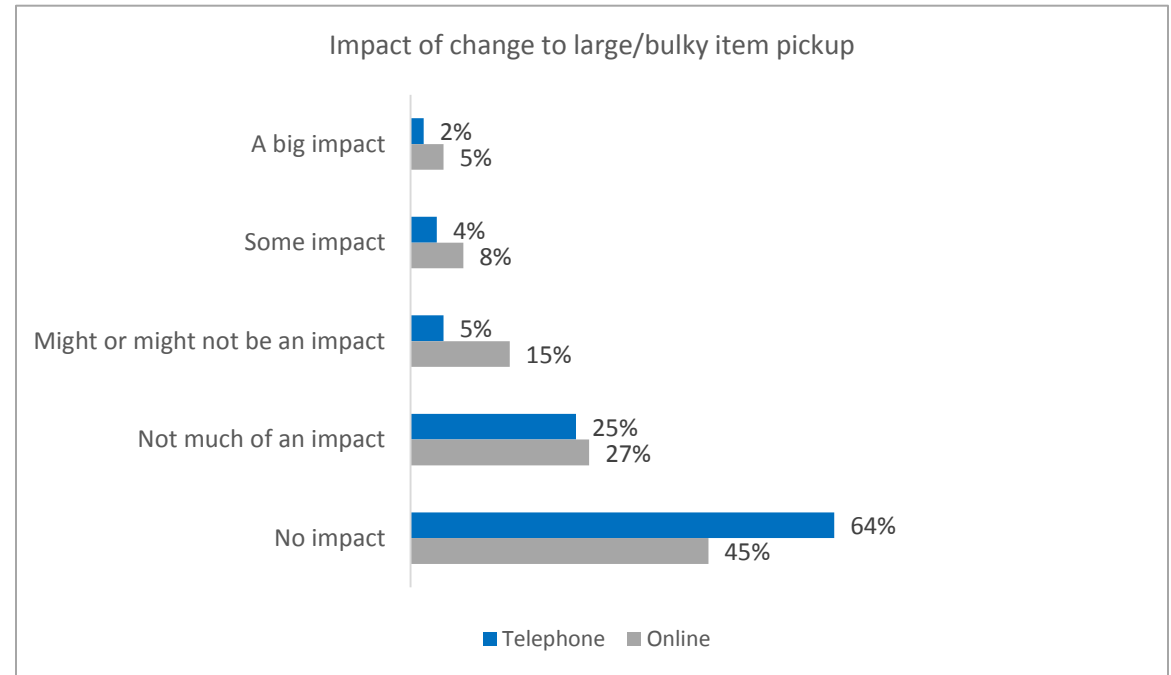
For Niagara Region's new waste collection (garbage, recycling and organics) contract, residents and businesses are being asked for their opinion about several proposal collection options. Adopting some or all of these options would help reduce the amount of waste going to disposal, and limit future costs to businesses and taxpayers.

The purpose of this survey is to receive feedback from residents on the possible collection options and to help Regional staff understand resident's feelings about each option.

2.1 Bulky/Large Item Collection

Q31 - The first option is related to large or bulky item pick up, such as carpet or furniture. The change would be to limit the number of large/bulky items collected to a maximum of four per week. In 2018, 92% of the bookings for large or bulky item pick up were for four items or less. If Niagara Region was to make this change, what would be the impact on your household? (Base – Full sample)

Figure 2.1a – Change to Bulky/Large Item collection, impact by survey type



Making a change to the bulky/large item collection so that a maximum of four items per collection can be put out will not unduly impact Niagara region residents.

6% of residents in the telephone survey, and 14% in the online survey feel this change would have an impact on their household.

The vast majority told us there would be little to no impact to them (94% of households in telephone survey, 87% of households in the online survey).

Respondent Sub-Segment Findings (Telephone)

- Those in households of three or more (8%) are slightly more likely to feel impacted, compared to households of two people (5%) and single person households (4%).
- Those who use 7+ garbage tags per year (16%) are most likely to feel there would be an impact on their household, compared to those who use 1-6 garbage tags per year (5%) and those who do not use garbage tags (4%).

Figure 2.1b – Change to Bulky/Large Item collection, impact by municipality

	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
A big impact	2	--	7%	--	2%	--	1%	--	1%	4%	--	2%	1%
Some impact	4	1%	8%	3%	7%	2%	3%	7%	5%	3%	1%	3%	4%
Might or might not be an impact	5	5%	4%	5%	7%	8%	6%	7%	4%	3%	--	11%	4%
Not much of an impact	25	23%	21%	30%	33%	21%	19%	25%	27%	30%	11%	23%	19%
No impact	64	71%	60%	62%	51%	69%	71%	61%	63%	60%	88%	61%	72%

2.2 Appliances/Scrap Metal Collection

Q32 – The second option under consideration would eliminate curbside pickup by Niagara Region of appliances and scrap metal. Currently, residents can go online and schedule a pick up of items at their home. Only 6% of Niagara households are using the curbside collection of appliances and scrap metal service. Also, as much as 60% of these items that are being put out have already been removed by the time crews arrive to pick them up. There would continue to be an opportunity for residents to take the items to a regional drop-off depot, at no charge, or have it picked up by private scrap metal haulers. If Niagara Region was to make this change, what would be the impact on your household? (Base – Full sample)

Figure 2.2a – Change to appliance/scrap metal collection, by survey type

Dropping/stopping the appliance/scrap metal collection program would have some impact on about 1 in 5 households in Niagara region. 17% of households in the telephone survey, and 22% in the online survey feel there would be at least some impact.

83% of households in the telephone survey, and 78% of the households in the online survey, feel there would be little to no impact on their household.

Respondent Sub-Segment Findings (Telephone)

- Those who use 7+ garbage tags per year (23%) are most likely to feel there would be an impact on their household, compared to those who use 1-6 garbage tags per year (18%) and those who do not use garbage tags (14%).
- Those who would need to continue to have their garbage picked up weekly are more likely to find at least some impact (19%) than those who could manage every-other-week collection (12%).

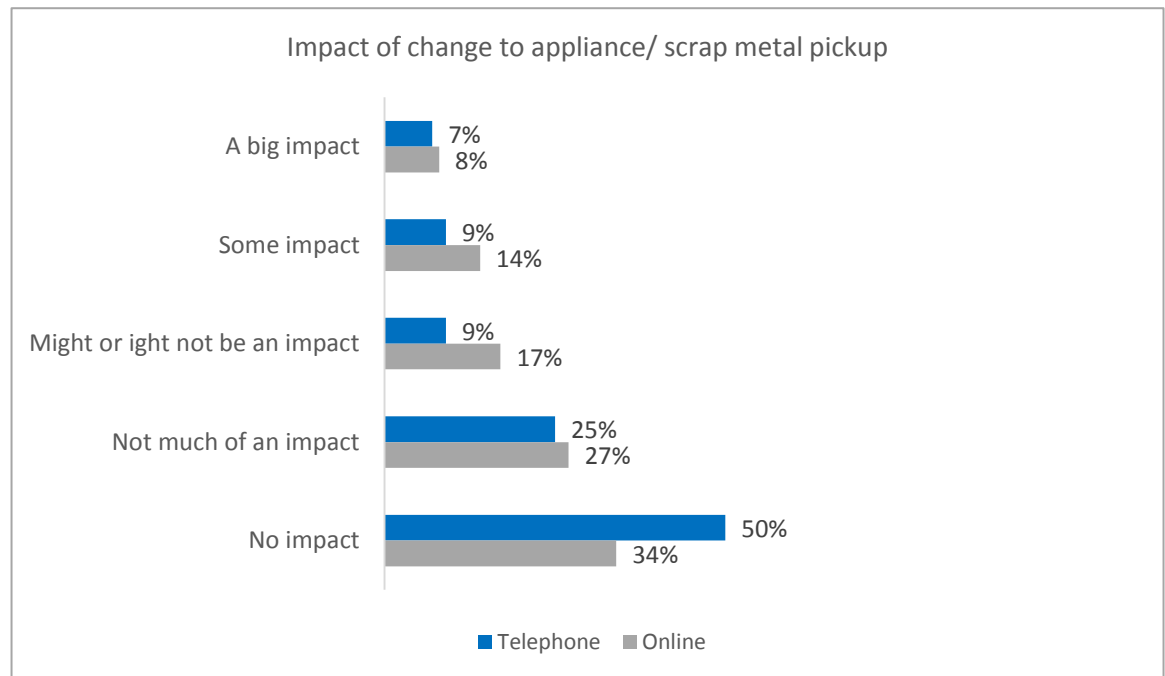


Figure 2.2b – Impact of change to appliance/scrap metal collection, by municipality

	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
A big impact	7%	--	11%	7%	8%	10%	7%	9%	7%	8%	3%	8%	4%
Some impact	9%	8%	11%	4%	11%	13%	7%	11%	10%	5%	9%	8%	7%
Might or might not be an impact	9%	14%	11%	12%	11%	12%	8%	4%	9%	10%	1%	8%	10%
Not much of an impact	25%	28%	25%	25%	27%	23%	27%	20%	28%	34%	11%	23%	16%
No impact	50%	50%	43%	52%	43%	42%	51%	56%	46%	43%	76%	53%	63%

2.3 Clear Bags

2.3.1 Support for clear bags

Q33 – A third option under consideration is the mandatory use of clear garbage bags. Some municipalities in Canada have already made this change. The cost for the clear bags would be about the same as green/black garbage bags. Clear garbage bags will make it easier to see recyclable or organic material that should be placed in the Blue/Grey Box or Green Bin or Hazardous Waste items that should be disposed of safely. A smaller opaque bag, such as a grocery bag, can be placed inside the clear garbage bag for disposing of sensitive or personal items. Would you support a switch to clear garbage bags? (Full Sample)

Household support for the mandatory use of clear bags in the telephone survey was surprisingly a fairly even split. 48% would support (definitely or probably), and 52% do not support.

It's a different picture when looking at the sentiment expressed in the online survey. 27% would support, and 73% oppose.

Respondent Sub-Segment Findings (Telephone)

- Those who would need to continue to have their garbage picked up weekly are more likely to support the use of clear bags (57%) than those who could manage every-other-week collection (40%).

Figure 2.3.1a – Support for mandatory clear garbage bags by survey type

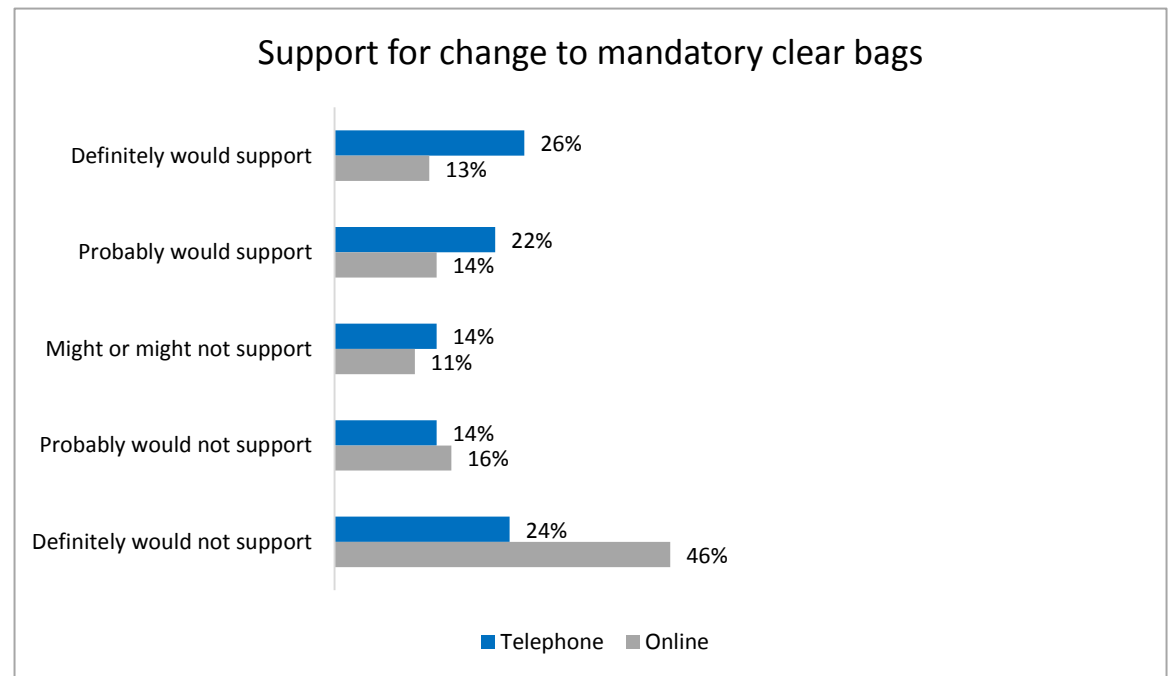


Figure 2.3.1b – Support for mandatory clear garbage bags by municipality

	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
Definitely would support	26%	19%	24%	28%	26%	30%	33%	24%	23%	20%	26%	33%	27%
Probably would support	22%	26%	28%	23%	19%	16%	15%	24%	26%	30%	16%	20%	19%
Might or might not support	14%	17%	14%	12%	13%	19%	16%	19%	15%	16%	8%	13%	11%
Probably would not support	14%	17%	17%	17%	16%	12%	12%	7%	14%	8%	13%	15%	12%
Definitely would not support	24%	21%	17%	20%	26%	23%	24%	26%	22%	26%	37%	19%	31%

2.3.2 Why support/not support?

Q34 – Why do you say that (support/not support clear bags)?

(Full Sample)

	Total	Support clear bags	Oppose clear bags
Keeps unwanted items from landfill	28%	51%	6%
Encourages use of Blue/Grey boxes and Green Bins	25%	48%	5%
Concerned about invasion of privacy	25%	8%	40%
Don't want my neighbours seeing my garbage	14%	3%	24%
Concerned about strength of clear bags	5%	2%	8%
We do not need "garbage police"	5%	1%	8%
Added cost/more effort	4%	1%	8%
Neutral/indifferent (General)	4%	6%	3%
We only use small grocery bags	3%	1%	5%
Stupid/no need (General)	2%	--	3%
Safer/better for waste management people	1%	3%	--

NOTE: All other responses are less than one percent total

"Clear bags tend to cost more money and are not as readily available. I also think having them curbside looks gross vs a black garbage bag. That being said I can understand why this idea could potentially reduce the amount of unacceptable items..."

"I just don't buy garbage bags so that would be an extra expense for us. Otherwise I am on board, we have nothing to hide..."

"Taking the trouble to separately sort embarrassing or secure sensitive material is annoying..."

"Clear bags are more expensive for one. The world doesn't need to see my garbage. Are you going to refuse pick up if I have recyclables in my trash? What about recycling that can't be cleaned like pizza boxes? Teaching what can be recycled and what can't would be far better..."

"If it becomes mandatory I will of course comply but personal items aside, I am not a fan of having my neighbours being able to see what I purchase, eat or throw out. Items come into my house concealed in shopping bags and that privacy with them going out is just as important to me..."

2.4 Every Other Week Garbage Collection

2.4.1 Managing every-other-week collection

Q35 – In Niagara Region an average of 50% of every garbage bag is food waste. A fourth option under consideration, that is already in practice in many other municipalities which encourages residents to use their Green Bin, is to pick up garbage every-other-week, but continue to collect unlimited Blue/Grey Boxes and Green Bins every week. There would be no change or reduction in the garbage container limit, but there would be less frequent pickup. With collection every-other-week, you would be allowed two garbage bags/containers. Based on your household's waste practices, would you be able to manage? (Full Sample)

Residents were split on their feelings about garbage collection every-other-week, with slightly more leaning towards continuing their weekly collection.

46% of the telephone survey, and 41% of those in the online survey could manage every-other-week collection.

Figure 2.4.1a – Ability to manage Every Other Week garbage collection by survey type

	Telephone (n= 1,253)	Online (n=6,369)
Be able to manage EOW collection	46%	43%
Need to continue weekly collection	54%	57%

	Niagara Region		Waterloo Region ³	
	Telephone (n=1,253)	LDR Online (n=6,639)	Telephone (n=511)	Online (n=7,087)
Be able to manage garbage collection every-other-week	46%	43%	50%	36%
Need to continue having your garbage picked up weekly	54%	57%	50%	64%

³ Region of Waterloo Waste Survey, Metroline Research Group Inc., 2014

Respondent Sub-Segment Findings (Telephone)

- Residents 65+ years are more likely to be able to manage every-other-week collection (51%), compared to those 45-64 years (45%) and those 18-44 years (41%).
- Those in single person households (62%) are more likely to be able to manage every-other-week collection than those in two person households (50%), and those in households of three or more (37%).
- Households with no one using diapers are more likely to be able to manage every-other-week collection (47%) than those with someone in diapers (31%).
- Those who do not use garbage bag tags in an average year are more likely to be able to manage every-other-week collection (52%) than those who use 1-6 garbage tags (41%) and those who use 7+ garbage tags (24%).
- Those who participate in organics collection are more likely to be able to manage every-other-week collection (50%) compared to those who are not currently participating in organics collection (37%).
- Those who support mandatory use of clear bags (55%) are more likely to be able to manage every-other-week collection (55%) than those who oppose mandatory clear bags (38%).
- Those who currently put out more garbage are less likely to say they could manage every-other-week collection

Figure 2.4.1b – Ability to manage every-other-week garbage collection by typical garbage set out

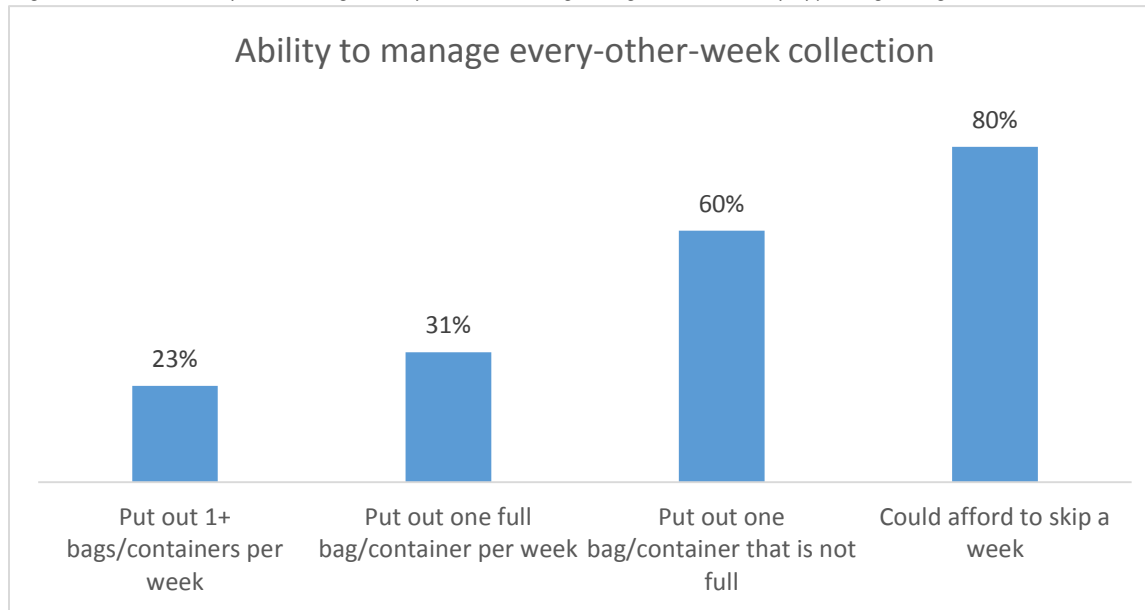


Figure 2.4.1b – Ability to manage Every Other Week garbage collection by municipality

	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
Be able to manage EOW collection	46%	52%	48%	52%	36%	50%	52%	40%	50%	47%	40%	49%	38%
Need to continue weekly collection	54%	48%	52%	48%	64%	50%	48%	60%	50%	53%	60%	51%	62%

2.4.2 Impact of every-other-week collection

Q36 – If Niagara Region collected garbage bags every-other-week, but collected your Blue/Grey Boxes and Green Bins every week, what would be the impact on your household? (Full Sample)

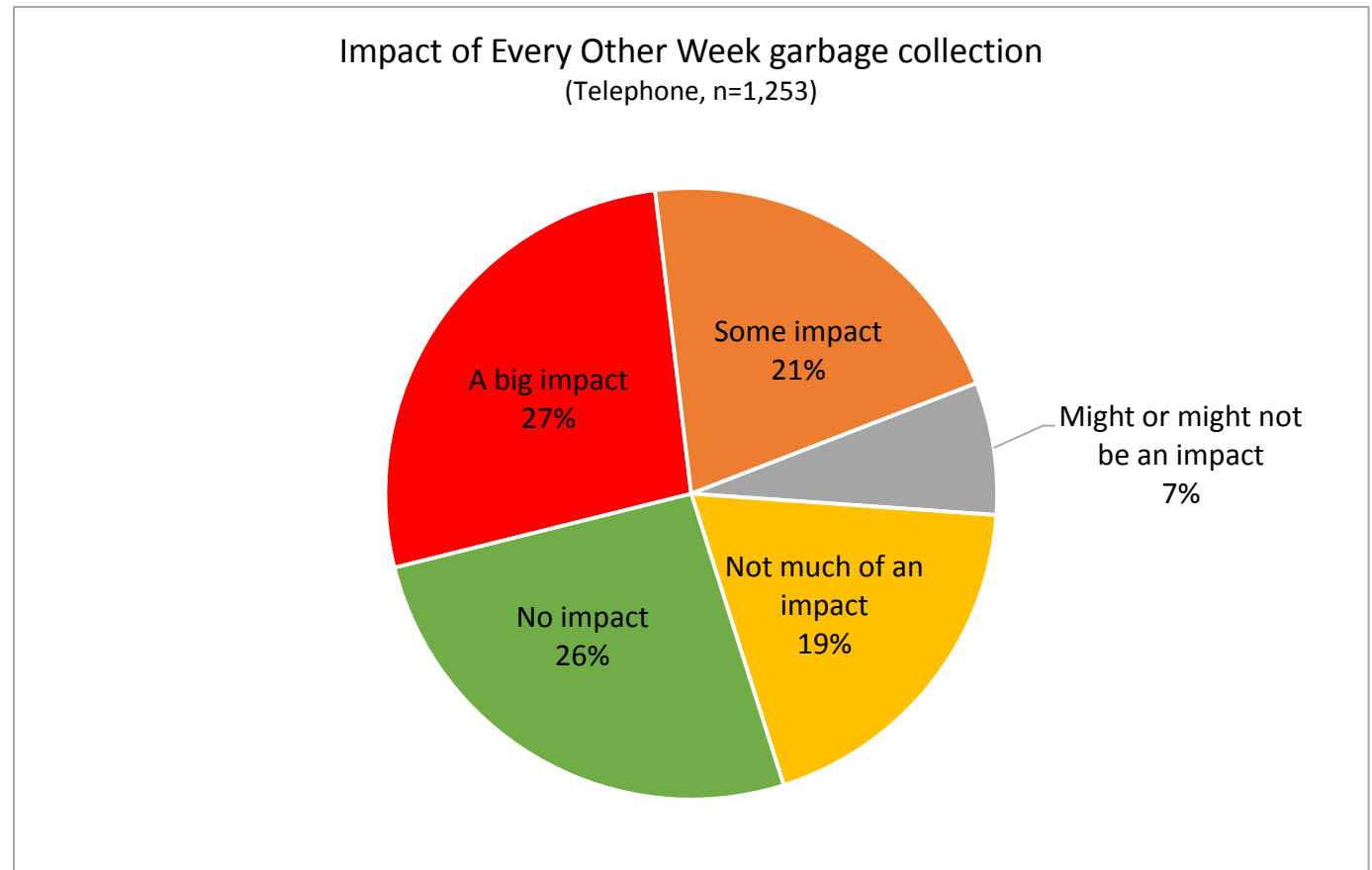
Figure 2.4.1a – Impact of Every Other Week garbage collection (Telephone)

In the telephone survey, just under half of residents (48%) feel there would be at least “some” impact on their household if Niagara Region switched to every-other-week garbage collection (while continuing to collect blue/grey boxes and green bins weekly).

A slight majority (52%) feel there would be little to no impact to their household.

Respondent Sub-Segment Findings (Telephone)

- Those in households of three or more (62%) are more likely to say there would be a big/some impact, compared to households of two people (40%) and single person households (33%).
- Those 18-44 years (59%) are more likely to say there would be a big/some impact, compared to those 45-64 years (48%) and those 18-44 years (41%).
- Those using diapers (70%) are more likely to say there will be an impact, compared to households with no diapers (47%).



- Those using 7+ garbage bag tags per year (76%) are more likely to say there will be an impact, compared to those using 1-6 garbage tags (55%) and those not using garbage tags (41%).
- Those not participating in the green bin/organics collection are more likely to say there will be an impact (57%) than those who are participating (45%).

Figure 2.4.1b – Impact of Every Other Week garbage collection

	Niagara Region		Hamilton ⁴		Waterloo Region ⁵	
	Telephone (n=1,253)	Online (n=6,639)	Telephone (n=800)	Online (n=1,468)	Telephone (n=511)	Online (n=7,087)
A big impact	27%	37%	34%	44%	25%	18%
Some impact	21%	21%	20%	19%	29%	24%
Might or might not be an impact	7%	9%	6%	8%	7%	10%
Not much of an impact	19%	17%	18%	13%	22%	24%
No impact	26%	16%	22%	16%	17%	24%
Impact Ratio (Big/Some vs. Not much/no impact)	+3	+25	+14	+34	+15	-6

While 48% of Niagara region resident indicate every-other-week collection would have some impact on their household, these numbers are lower than the 54% of residents in Hamilton and Waterloo Region who indicated there would be an impact on their household.

⁴ City of Hamilton Waste Management Services Public Engagement Survey – Metroline Research Group, 2016

⁵ Region of Waterloo Waste Survey, Metroline Research Group Inc., 2014

Figure 2.4.1c – Impact of Every Other Week garbage collection by municipality

	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
A big impact	27%	19%	32%	16%	38%	15%	18%	27%	25%	26%	31%	28%	35%
Some impact	21%	23%	19%	23%	19%	31%	23%	24%	20%	26%	23%	20%	16%
Might or might not be an impact	7%	13%	--	5%	7%	9%	4%	5%	8%	7%	3%	8%	10%
Not much of an impact	19%	14%	21%	21%	22%	15%	16%	23%	19%	23%	13%	18%	18%
No impact	26%	31%	28%	35%	14%	30%	39%	21%	28%	18%	30%	26%	21%
Impact Ratio	+3												

2.4.3 Why is there an impact

Q37 – Why do you say that? (Base - Asked of those who say there would be a big/some impact)

Those who feel there would be a “big impact” or “some impact” were asked for the primary reasons why (unaided, this list was not provided).

The biggest barrier is the smell, especially in the summer time (63%), significantly higher than all other mentions.

Keeping animals out of the garbage was the second barrier, at 39%.

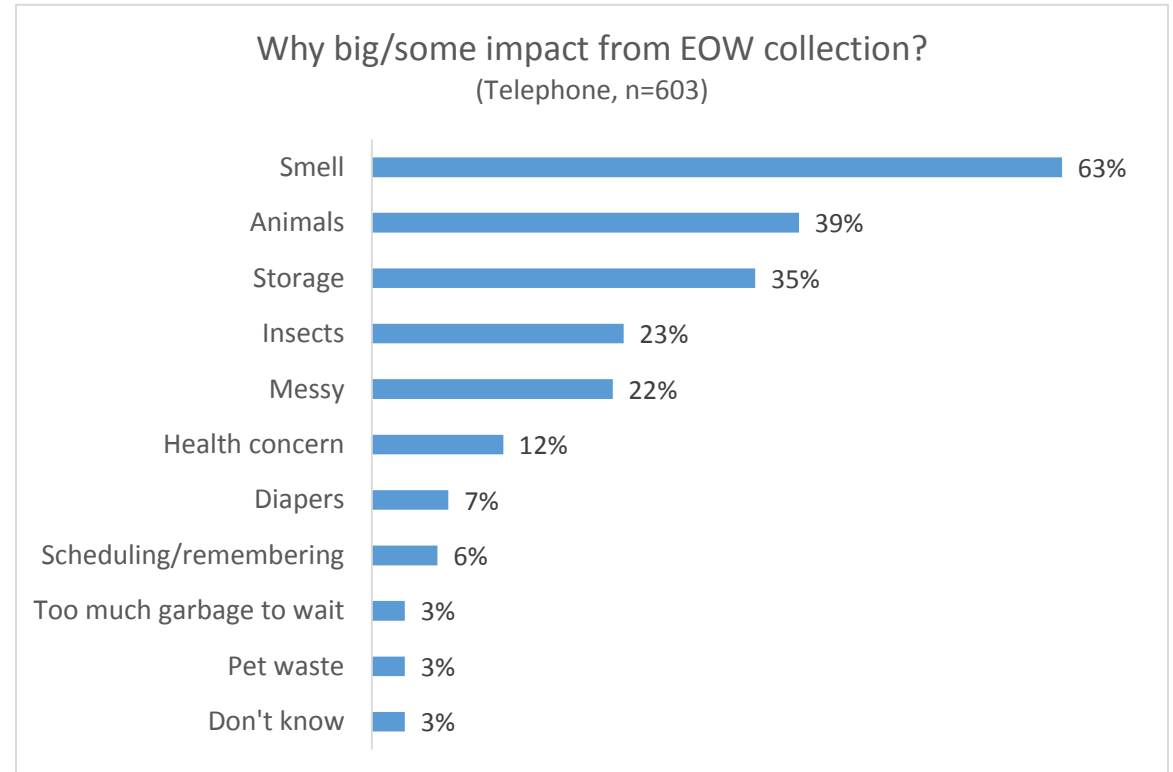
Finding space to store the garbage for the extra week was third, at 35%.

“The stench would be absolutely sickening in the summer, and it would also be a big draw for flies and rats and we are overrun with them already - both of which could be a health issue. Instead of punishing those of us that recycle and try to keep garbage at a minimum try increasing the cost of the bag tags substantially - if the price is high enough they'll learn to recycle...”

“We produce a full green bin and full garbage every week for a family of 4. Bi-weekly garbage would result in us having 2 bags of garbage bi-weekly. We do not have storage space for this extra bag. We already have a mice problem in our neighbourhood and we are concerned that it would increase if we are keeping bags of garbage for longer. Our garbage contains soiled diapers and holding them longer would greatly increase odour issues...”

“Where am I supposed to keep this garbage for an extra week. If I leave it outside animals will get it, if I leave it in my house it will smell and I will have flies in my house...”

Figure 2.4.3a – Why big/some impact of EOW collection? (Telephone)



2.5 Making A Choice

Q38 - If you had to choose between mandatory use of clear garbage bags, every-other-week garbage collection, or the use of both, which would you choose? (Full Sample)

In the telephone survey, residents could not see the option for “neither”, and our interviewers worked to force a choice from the other three. In the online survey, this was visible after the first day or two of fieldwork, and as a result was selected more often.

In the telephone survey, between the two, there was a slight preference for clear garbage bags over every-other-week, but not dramatically so. In the online survey, residents who made a choice decided on every-other-week collection over clear bags by a margin of about 2:1.

Figure 2.5a – Choice between EOW collection and/or clear garbage bags by survey type

	Telephone (n=1,253)	Online (n=6,639)
Clear garbage bags	33%	17%
EOW garbage collection	27%	33%
Both clear garbage bags and EOW garbage collection	21%	12%
Neither **	19%	38%

Figure 2.5b – Choice between EOW collection and/or clear garbage bags by municipality

	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
Clear garbage bags	33%	26%	33%	31%	37%	36%	26%	40%	33%	31%	33%	36%	37%
EOW garbage collection	27%	31%	24%	33%	22%	22%	34%	21%	30%	42%	21%	20%	20%
Both clear garbage bags and EOW garbage collection	21%	25%	24%	20%	13%	30%	19%	24%	20%	16%	19%	25%	22%
Neither	19%	18%	19%	16%	28%	12%	21%	15%	17%	11%	27%	19%	21%