

City of Mississauga
Corporate Report



Date: 2019/06/18

To: Chair and Members of General Committee

From: Geoff Wright, P. Eng., MBA, Commissioner of
 Transportation and Works

Originator's files:

Meeting date:
 2019/06/26

Subject

Vacuum Leaf Collection Program Revised Criteria

Recommendation

1. That the Vacuum Leaf Collection Program continue with the existing criteria for inclusion in the program using a combination of the age of the subdivision, minimum of 35 years from assumption, as well as a visual inspection performed by staff, as outlined in the report from the Commissioner of Transportation and Works, dated June 13, 2019 and entitled "Vacuum Leaf Collection Program Revised Criteria".
2. That staff review and report back on the Vacuum Leaf Collection Program on expiration of the new contract, in approximately three-years time, as outlined in the report from the Commissioner of Transportation and Works, dated June 13, 2019 and entitled "Vacuum Leaf Collection Program Revised Criteria".

Report Highlights

- The Transportation and Works Department provides a Vacuum Leaf Collection Program (VLCP) to certain parts of the City to help prevent leaves from collecting in the road allowance and in city infrastructure, which increases the risk of flooding.
- The Region of Peel provides weekly yard waste collection for leaves from private trees, as part of their waste collection program.
- The Parks, Forestry and Environment Division maintains a database, which contains an inventory of all City-owned street trees and includes information such as species, age and size of every street tree within the City of Mississauga.
- Over a seven year span, the average annual gross cost of the VLCP has been approximately \$1.4M. Recoveries are received from the Region, which lowers the net cost of the VLCP to the City with an average annual net cost of approximately \$350,000.
- For the 2019 VLCP, staff are proposing to maintain the existing criteria for inclusion in the program, which is a combination of the age of the subdivision, minimum of 35 years from

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assumption, as well as a visual inspection performed by staff. This criteria would include approximately 130 additional streets in the VLCP, bringing the total streets in the program to approximately 1,738, and have a gross cost of approximately \$1.4M.

- Staff propose to award a three-year contract starting in the fall of 2019 and report back to General Committee at the termination of the contract to determine any changes that should be made to the contract going forward.
- A comprehensive communication plan will be required to support any of the five options presented, especially for those options where residents may no longer receive the service in 2019 and any year thereafter.

Background

At its meeting of September 13, 2017 Council approved the following recommendation:

“GC-0507-2017

1. That additional streets be included in the 2017 Vacuum Leaf Collection Program as outlined in the report from the Commissioner of Transportation and Works, dated August 22, 2017 and entitled ‘Vacuum Leaf Collection Program – 2017 Overview’.

2. That staff report back on the feasibility of using biomass data to develop new criteria for incorporating new streets, and possibly maintaining existing streets, in the Vacuum Leaf Collection Program as outlined in the report from the Commissioner of Transportation and Works, dated August 22, 2017 and entitled ‘Vacuum Leaf Collection Program – 2017 Overview’.

3. That the following additional streets be included in the 2017 Vacuum Leaf Collection Program:

- a) Gladwyne Court – Ward 2***
- b) Vermillion Court – Ward 2***
- c) Westminster Place – Ward 3***
- d) Markwood Court – Ward 9***
- e) Markwood Place – Ward 9***
- f) Parkwood Place – Ward 5***
- g) Champlain Trail – Ward 5”***

The purpose of this report is to report back on the feasibility of using biomass data to develop new criteria for incorporating new streets into the VLCP, as well as to consider other alternatives regarding the future of the VLCP.

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Comments

VLCP Overview:

The VLCP commenced in the City of Mississauga at least 30 years ago. The original intent of the program was strictly to collect leaves in the fall that had collected in the ditches in ditched communities. Over time, the VLCP has grown into the program it now is. The VLCP is provided through the use of City staff and contractors.

The City of Mississauga's VLCP is a six-week program intended to help keep catch basins clear in areas with mature trees in the road allowance. The existing criteria for inclusion in the program is a combination of the age of the subdivision, minimum of 35 years from assumption, as well as a visual inspection performed by staff. Streets are placed into one of three zones. Each zone receives two pick-ups, three weeks apart.

The VLCP had approximately 1,653 streets included in the 2018 program. In the fall of 2018, staff sent an email update to the Mayor and Members of Council to include an additional 53 streets into the program. A copy of this email has been included as Appendix 1.

The Region of Peel also provides a yard waste collection program to all Mississauga residents. Residents can place their yard waste, including leaves, in paper waste bags or plastic containers at the curbside for collection.

Municipal Scan

Staff performed a municipal scan on neighbouring municipalities to confirm their operations for a loose leaf collection service. Of the 17 municipalities surveyed, only four have a limited collection area based on a range of criteria according to age of subdivision or inspection by staff. These municipalities are: Brampton, Kitchener, Oakville and Toronto.

It should be noted that Brampton's program faced similar challenges to Mississauga's when it was revised in 2009. Due to rising program costs, overlap with the Region's bagged collection program and inclement weather challenges, the program was changed to only provide loose leaf collection in the downtown core. At the time, the revised program resulted in an estimated annual savings of approximately \$230,000.

Only three of the 17 municipalities surveyed have a city-wide program. These municipalities are: Burlington, Cambridge and Waterloo. All 17 municipalities offer a bagged yard waste collection program for their residents. A summary of these results has been attached as Appendix 2.

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In addition to investigating the feasibility of using a biomass criteria, staff have reviewed four other options for consideration for the future of the VLCP, as noted below:

Option 1 – Maintain Existing VLCP Criteria

If the VLCP's existing eligibility criteria is maintained, an additional 785 residential streets will meet the criteria to be included in the program within 10 years. This will continue to add pressure to budget and resources in order to maintain levels of service. The number of new streets that would be included in 2019 would be 130. These streets have been listed in Appendix 3.

With this option, staff propose to award a three-year contract starting in the fall of 2019 and report back to General Committee at the termination of the contract to determine if any changes should be made to the contract going forward.

Option 2 – Implement Biomass Criteria

Diameter and species data can be used to calculate the biomass (amount of living matter as a unit volume, including leaves) created by the street trees on each City of Mississauga street.

Using the biomass data provided by the Parks, Forestry and Environment Division (PFE), staff performed calculations to compare the data and establish criteria for which streets would be included in the VLCP. The calculations take into account:

- Average biomass number of all streets currently in the VLCP
- Median biomass number of all streets currently in the VLCP
- Average biomass number for the streets added into the program in the last five years
- Average and median biomass number for streets that will meet the 35 year criteria in the next five and ten years
- Average and median biomass number for all streets in the City of Mississauga

The review compared data from the calculations listed above and data for streets that meet the 35 year criteria to determine a baseline of streets that would be included in the VLCP. The review also considered areas that are next to City owned woodlots, parks or trails to determine the impact of City trees on these residents.

After both a review of the data, as well as visual inspections, staff determined that a biomass benchmark of 3.0 be utilized as the criteria by which streets would be added to the VLCP. This benchmark of 3.0 represents the median for all streets included in the 2018 VLCP. Streets that have a biomass number above 3.0 would be included in the VLCP and those below the 3.0 biomass number would not be eligible for the VLCP.

The number of streets that would be included in this program using the above noted criteria would be approximately 1,900. The streets to be included in the program have been listed in Appendix 4. A list of streets that are being proposed to be removed from the program as well using biomass criteria are presented in Appendix 5. This would result in a net increase of 256 streets from the 2018 VLCP.

The information received from PFE indicates there is a slow growth of the tree canopy and biomass on an annual basis. Currently, this database is fully updated approximately every seven years given the slow growth rate of urban trees in southern Ontario, and the amount of work required to update and maintain the data. PFE is however, considering maintaining this data internally rather than by a consultant. This would mean the data could be updated more frequently, if required, and used as part of the VLCP criteria.

If this option was implemented, staff propose to review the program on a three-year basis as long as new data is available from PFE relating to the biomass of the city-owned trees.

The concern with this option is this criteria adds twice as many new streets into the program initially, similar to Option 1, which will place pressure on resources and budgets to maintain the service. The bio-mass criteria provides an arbitrary figure to identify streets that will be included into the program, similar to our existing program. There is nothing “scientific” about this option as staff must determine a basis for including streets using biomass, which is subjective or based on some rudimentary analysis. Biomass data therefore provides no more value than the existing criteria of using the age of the subdivision. This option will also be hard to administer and could cause confusion for residents as streets may be added and removed from the program on a three-year cycle depending on the biomass of the area.

Option 3 – Include Streets with Ditches Only

This option would include only streets that have ditched roads in the VLCP. This option aligns with the original intent of the VLCP, which has grown over time into what it is today. This option is also the most sustainable for resources and budgets. The number of streets that would be included in this program would be 245. This would remove approximately 1,400 streets that were included in the 2018 program. The streets to be included in this option have been listed in Appendix 6.

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Option 4 – Status–Quo with Freeze on Adding More Streets

This option would hold the existing 1,653 streets currently in the VLCP. This option would eliminate the VLCP from expanding any further as it is becoming increasingly unsustainable for a city the size of Mississauga to continue to grow to maintain the VLCP. Residents would still be included in the yard waste collection program currently offered by the Region of Peel.

Option 5 – Do Entire City

This option would eliminate the use of criteria to include streets in the VLCP and provide the service to all residents. This option would place a strain on resources and budgets; however, it provides an equal opportunity for all residents to be included in the VLCP.

In partnership with Works Operations and Maintenance, Strategic Communications will assist in creating content and creative for the City's 2019 Vacuum Leaf Collection Program. Materials, including updated web content will provide a clear understanding about the program, the updated criteria, timing as well as what residents in service areas can expect before, during and after the collection.

Financial Impact

A financial summary showing the actual cost and recoveries for the VLCP from 2012 to 2018 has been attached as Appendix 7. Over this seven year span, the average annual gross cost of the VLCP program has been approximately \$1.4M with an average annual net cost of approximately \$350,000.

The rebate increase per tonne received from the Region of Peel in 2016 was \$171.97 compared to \$118.25 in 2015, which assisted in lowering the net cost of the program in 2016. The rebate received from the Region was maintained at \$174.46 for 2017 and \$177.42 in 2018. The rebate is a fluid value, which changes based on the cost incurred by the Region of Peel for their yard waste collection contractor.

The amount of tonnes collected doubled from 4,973 tonnes in 2017 to 9,829 tonnes in 2018. This was attributed to a snow storm during collection in November 2018, as well as a very wet collection season overall. The City's contractor costs to fulfill this program can fluctuate on an annual basis, as well, due to weather patterns, volume of leaves collected and timing of leaves falling.

The financial impacts of the options presented are estimated as follows:

- Option 1 – Maintain Existing VLCP Criteria: The proposed annual gross cost for this program would be approximately \$1.4M and include 1,783 streets in the VLCP initially and would continue to increase as reviewed.

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- Option 2 – Implement Biomass Criteria: The proposed annual gross cost for this program would be approximately \$1.6M and include 1,900 streets in the VLCP, initially, and would continue to increase as reviewed.
- Option 3 – Include Streets with Ditches Only: The proposed annual gross cost for this program would be approximately \$250,000 and include 245 streets in the VLCP.
- Option 4 – Status-Quo with Freeze on Adding More Streets: The proposed annual gross cost for this program would be approximately \$1.4M and include 1,653 streets in the VLCP.
- Option 5 – Do Entire City: The proposed annual gross cost for this program would be approximately \$3.0M and include 3,568 streets in the VLCP.

Conclusion

The Transportation and Works Department provides a VLCP to certain parts of the City to prevent leaves from collecting in the road allowance and/or City infrastructure, which can increase the risk of flooding. For the 2019 VLCP, staff are proposing to maintain the existing criteria for inclusion in the program, which is a combination of the age of the subdivision, minimum of 35 years from assumption, as well as a visual inspection performed by staff. This criteria would include approximately 130 additional streets in the VLCP, bringing the total streets in the program to approximately 1,783 streets, and have a cost of approximately \$1.4M. The net cost to the City is difficult to estimate, and is dependent on the recoveries from the Region, which is influenced by the volume and weight of leaves collected as well as the value of the rebate.

The Region of Peel currently provides a yard waste program for all residents, which would still allow residents to have their leaves collected if they are bagged and placed curbside on their regular waste collection date. The Region's bagged program provides collection regardless of the severity of inclement weather, which is disadvantageous to the City's vacuum program, especially during the arrival of the winter season, when the same trucks are used for both vacuum collection and winter maintenance. In addition, there is a perceived overlap by the residents of similar services being offered by both the City and Region.

Attachments

- Appendix 1: Email to Mayor and Council for Additional 53 Streets in the Program for 2018
- Appendix 2: Summary of Municipal Benchmarking Scan
- Appendix 3: Streets to be Included for Option 1 – Maintain Existing VLCP Criteria
- Appendix 4: Streets to be Included for Option 2 – Implement Biomass Criteria

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Appendix 5: Streets to be Removed for Option 2 – Implement Biomass Criteria

Appendix 6: Streets to be Included for Option 3 – Include Streets with Ditches Only

Appendix 7: Financial Summary – Actual 2012-2018 for VLCP



Geoff Wright, P. Eng., MBA, Commissioner of Transportation and Works

Prepared by: Scott Holmes, C.E.T., Senior Manager, Works Administration, Operations and Maintenance

Scott Holmes

From: Mickey Frost
Sent: 2018/09/14 4:26 PM
To: MC
Cc: LT; Scott Holmes
Subject: Update - Vacuum Leaf Collection Program
Attachments: Streets to be added 2018 VLCP.PDF; Corporate Report - Vacuum Leaf Collection Program - 2017 Overview.pdf

Madam Mayor and Members of Council:

The following is an update on the 2018 Vacuum Leaf Collection Program (VLCP) and the proposed plan for the VLCP moving forward.

As outlined in the report from the Commissioner of Transportation and Works (copy attached), dated August 22, 2017 and entitled “Vacuum Leaf Collection Program – 2017 Overview”, which was approved by Council on September 13, 2017, staff are in the process of revising the criteria for inclusion in the VLCP to use bio mass data rather than the existing criteria of 35 years since subdivision registration as well as a satisfactory visual site inspection. The follow up report to General Committee was not undertaken in early 2018, as mentioned in the attached report, since the City’s current VLCP contract expires on December 31, 2018 and it is not cost-effective to make any fundamental changes to the contract at this time.

Bio mass data is the amount of living matter as a unit volume, including leaves. This will ensure we will have streets included in the program based on scientific values rather than only age of subdivision. The data will take into consideration streets that have been affected by the 2013 ice storm, and the Emerald Ash Borer and Asian Longhorn Beetle infestations.

Staff from Works Operations and Maintenance, and Parks and Forestry, have partnered to determine the new criteria for the VLCP using bio mass data. Staff will report to General Committee in early 2019 on the new VLCP using bio mass data as the measure of inclusion, indicating the streets that will be included in the new VLCP as well as those streets that would be excluded from the VLCP for not meeting the new bio mass data criteria.

In the meantime, for the 2018 VLCP staff will continue to use the existing criteria since the City’s current VLCP contract expires on December 31, 2018; and, to ensure Council approval has been obtained before any changes are made to the inclusion criteria and related impact on streets to be serviced using the new bio mass data-based criteria, particularly to streets that previously had service and now would not.

Using the existing criteria, an additional 50 streets will be added to the 2018 VLCP, bringing the total number of streets serviced to approximately 1,650. Staff have attached a list showing the proposed additional streets to be added to the 2018 VLCP by zone and Ward, for your reference. Our existing resources of both internal workers and contractors can accommodate the additional streets to be included in the 2018 VLCP.

Should you require further information or assistance on the VLCP, please contact Scott Holmes, Senior Manager, Works Administration, Operations and Maintenance, or myself.

Thank you,



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City of Mississauga | Transportation and Works,
Works Operations and Maintenance Division

Please consider the environment before printing.

<u>Streets to be Added to the 2018 VLCP</u>						
<u>Street</u>	<u>Zone</u>	<u>Ward</u>		<u>Street</u>	<u>Zone</u>	<u>Ward</u>
CARIBBEAN CRT	Z 28	4		EASTRIDGE RD	Z 46w	9
RAYFIELD CRT	Z 28	4		*MONTEVIDEO RD	Z 46w	9
				SYMINGTON CRT	Z 46w	9
<u>Street</u>	<u>Zone</u>	<u>Ward</u>		TRIPOLI TERR	Z 46w	9
HUNTINGFIELD DR	Z 37e	5		VALENCIA RD	Z 46w	9
				*Section north of Battleford Rd.		
<u>Street</u>	<u>Zone</u>	<u>Ward</u>				
BUCKINGHAM CT	Z 30	6				
GUILD CT	Z 30	6		<u>Street</u>	<u>Zone</u>	<u>Ward</u>
HEATHERWOOD SQ	Z 30	6		ALFRESCO TERR;	Z56	9
OXFORD SQ	Z 30	6		BRACKNELL CRES	Z56	9
WAKEFIELD CRES	Z 30	6		CORDINGLEY CRES	Z56	9
WOBURNWOODS LN	Z 30	6		DANTON	Z56	9
				DOLMAGE CRT	Z56	9
<u>Street</u>	<u>Zone</u>	<u>Ward</u>		EUROPA CRT	Z56	9
ALDERMEAD RD	Z 31	8		GANYMEDE RD	Z56	9
BADMINTON DR	Z 31	8		HARLOW RD	Z56	9
BEAUFORT TERR	Z 31	8		HARRIS CRES	Z56	9
HAYDOCK PARK DR	Z 31	8		HARRIS RD	Z56	9
KEMPTON PARK DR	Z 31	8		HICKLING CRES	Z56	9
MINSTREL MEWS	Z 31	8		HILLIS CRT	Z56	9
MOOREVALE CRT	Z 31	8		MILLER'S GROVE	Z56	9
PHOENIX PARK CRES	Z 31	8		OLYMPUS MEWS	Z56	9
PIMLICO CRT	Z 31	8		PLUM TREE CRES	Z56	9
SANDOWN RD	Z 31	8		RUNCORN ROW	Z56	9
SEDFIELD RD	Z 31	8		SPRING CREEK	Z56	9
TEESIDE CRT	Z 31	8		STEVENAGE CRT	Z56	9
THE CHASE	Z 31	8		SUNDOWN CIR	Z56	9
THE GALLOPS	Z 31	8		VANDERBILT RD	Z56	9
WINCANTON CRES	Z 31	8				
WINDSOR WAY	Z 31	8		50 New streets to be added in 2018		

<u>Municipality</u>	<u>Loose Leaf Collection Service?</u>	<u>Inclusion Criteria for Loose Leaf Collection</u>	<u>Comments/Notes</u>
Aurora	No	N/A	Residents can bag leaves and put bags out as yard waste. Biweekly service, April to November. Residents can also drop off loose leaves at several depots.
Barrie	No	N/A	Residents can bag leaves and put bags out as yard waste, weekly service in January, April, May, June, September, October, and November. Biweekly service in July, August and December. No collection in February and March. Residents can also drop off loose leaves at a landfill.
Brampton	Yes	Fall Leaf Vacuum Program is limited to downtown Brampton on the basis of staff's historical knowledge of areas with high leaf fall volumes.	Service is provided three times per qualified street, October to December (weather dependent). Residents throughout the City can also bag leaves and put them out as yard waste collected by the Region of Peel.
Burlington	Yes	City-wide.	Service is provided once or twice per street depending on leaf fall volumes. Loose Leaf Collection Program occurs in November and December (weather dependent). Residents can also bag leaves and leave bags curbside as yard waste for pickup by the Region of Halton, April to December.
Cambridge	Yes	City-wide.	Service is provided once per street. Loose Leaf Collection program takes place from October to November and lasts approximately 4 weeks (weather dependent). Residents can also bag leaves and leave bag curbside for biweekly pickup by the Region of Waterloo, March to November.
Hamilton	No	N/A	Residents can place leaves in bags or containers and place bags/containers out as yard waste. Weekly pickup year-round.

<u>Municipality</u>	<u>Loose Leaf Collection Service?</u>	<u>Inclusion Criteria for Loose Leaf Collection</u>	<u>Comments/Notes</u>
Kitchener	Yes	Certain areas based on staff knowledge of historical leaf fall volume.	Service is provided as many times as needed in areas with high leaf fall volume (weather dependent). Areas with a medium-level of leaf fall volume are serviced once in November. Areas without loose leaf collection have bagged curbside collection picked up by the Region of Waterloo, March to November. Residents, in addition to loose leaf or bagged collection services, can also drop off loose leaves at several depots.
London	No	N/A	Residents can bag leaves and put the bags out as yard waste every 6 weeks from March to October. Curbside collection occurs twice in October, and once in November and December. Residents may also drop off bags of leaves at depots.
Markham	No	N/A	Residents can bag leaves and put the bags out as yard waste every other week from April to December. Residents may also drop off bags of leaves at several facilities.
Milton	No	N/A	Residents can bag leaves and leave bags curbside as yard waste for pickup by the Region of Halton, April to December. Residents may also drop off bags of leaves at a waste
Oakville	Yes	Subdivisions 25 years and older with mature trees together with visual inspection about significant leaf fall.	Loose leaf collection program takes place in the Spring, April-May, and in the Fall, October-November (weather dependent). Residents can also bag leaves and leave bags curbside as yard waste for pickup by the Region of Halton, April to December.
Oshawa	No	N/A	Residents can bag leaves and put the bags out as yard waste. Biweekly service April-late November.
Ottawa	No	N/A	Residents can bag leaves and put the bags out as yard waste. Weekly service year-round.
Richmond Hill	No	N/A	Residents can bag leaves and put the bags out as yard waste. Biweekly service April to October. Weekly service October to December.
Toronto	Yes	Parts of East York, Etobicoke, North York, and Scarborough based on staff's historical knowledge of areas with high leaf volume.	One pass through each street. Mechanical leaf collection program takes place November to December (weather dependent). Residents can also bag leaves and put the bags out curbside as yard waste where they will be collected on specified dates throughout the fall.

<u>Municipality</u>	<u>Loose Leaf Collection Service?</u>	<u>Inclusion Criteria for Loose Leaf Collection</u>	<u>Comments/Notes</u>
Vaughan	No	N/A	Residents can bag leaves and put them out as yard waste. Weekly pickup April to June. Bi-weekly pickup June to October. Weekly pickup October to December.
Waterloo	Yes	City-wide.	At least one pass through each street. Residents can also bag leaves and leave bags curbside for biweekly pickup by the Region of Waterloo, March to November.

Streets to be added to the VLCP with Existing Criteria for 2019		
Clarkson		
Zone	Street	Ward
13	HEDGE DR	1
8-54	MISSISSAUGA RD	1
7	THE THICKET	1
16	ALMIRA CRT	7
16	BEAVERBROOK WAY	7
16	CHISHOLM AVE	7
14	CREELMAN RD	7
14	FLORIAN RD	7
16	GERAN CRES	7
16	HURONDALE DR	7
16	OLINDA CRT	7
16	POLLARD DR	7
16	SAINT ANDREW S PL	7
17	TIPPERARY CRT	8
Mavis		
Zone	Street	Ward
22-59	BURNHAMTHORPE RD W	3
26	CORKSTONE GLADE	3
19-26	FIELDGATE DR	3
19-27	GOLDEN ORCHARD DR	3
27	GRYPHON MEWS	3
27	IDEAL CRT	3
27	LEE DR	3
27	PASCAL CRT	3
27	PRESTON TR	3
26	ROWNTREE CRT	3
27	SCOTTSBURG CRES	3
27	SCOTTSBURG CRT	3
27	STARLIGHT CRES	3
27	SUGAR MAPLE CRT	3
27	TYNEGROVE RD	3
27	VINTNER DR	3
27	WESTMINSTER PL	3
27	WETHERBY LANE	3
27	WINDCROFT CRT	3
28	ABERFOYLE CRT	4
28	ANGELONI DR	4
28	ASHRIDGE PL	4
28	BUD GREGORY BLVD	4
28	CAMDEN CIR	4
29	FOUNDERS WALK	4
28	FULL MOON CIR	4
29	HARROWSMITH DR	4
29	HEARTHSIDE DR	4
29-37E	HERITAGE HILLS BLVD	4
29	HILLBURY DR	4

Appendix 3

29	HUNTINGTON RIDGE DR	4
29	JETHRO CRT	4
28	LAURENTIAN AVE	4
28	MALLORYTOWN AVE	4
28	PEMMICAN TR	4
28	PETAWAWA CRES	4
29	POTOMAC CRT	4
29	ROCKCLIFFE GDNS	4
28	WAGONWHEEL CRT	4
29	WESTBOURNE TERR	4
29	WEYMOUTH COMMONS CRES	4
29	WINFIELD TERR	4
28	WOODINGTON DR	4
30	APPLE GATE CRT	6
30	BUCKINGHAM CRT	6
30	GUILD CRT	6
30	OXFORD SQ	6
30	WAKEFIELD CRES	6
30	WOBURN WOODS LANE	6
22-23	CENTRAL PKY W	7
22	DRAGON DR	7
22	HANSON RD	7
22	LECH WALES DR	7
22	MELVILLE AVE	7
22	PALGRAVE RD	7
22	SURBRAY GROV	7
31	BADMINTON DR	8
58	BARWELL RD	8
31	BEAUFORT TERR	8
58	BERTRAND RD	8
24	CAVERLY CRT	8
58	CHADBURN CRES	8
58	CHARTRAND CRES	8
58-59	COLONIAL DR	8
31	DELDERFIELD CRES	8
58	DOLSON CRT	8
58	DRUMMOND RD	8
58	FARNSWORTH CRES	8
24	FIFESHIRE CRT	8
58	GALBRAITH DR	8
24	GLAMIS CRT	8
58	HALSTEAD RD	8
58	HARGROVE RD	8
58-59	LOYALIST DR	8
58	MELFORT CRES	8
31	MOOREVALE CRT	8
58	OSBOURNE RD	8
58	PRENTISS RD	8
24	PROMONTORY CRES	8
24-31	PROMONTORY DR	8
58	RENFREW CRES	8
58-59	RIDGEWAY DR	8

58	ROSSLAND CRES	8
58	RUSHTON CRES	8
58	SANCREST CRT	8
58	SEEBRING CRES	8
24	SELKIRK PL	8
24	STRATHROY CRT	8
31	TATTERSALL WAY	8
58	THORNCREST DR	8
58	UNITY DR	8
32	UNITY GATE	8
58	VARDEN CRT	8
58	WILMAR CRES	8
Malton		
Zone	Street	Ward
36W	CANITAL CRT	5
36W	CHIEFTAN CIR	5
36W	DAKOTA RD	5
36W	DELAWARE DR	5
47	FINERY CRES	5
36E-51	KENNEDY RD	5
47	KEY CRT	5
36W	NAHANI WAY	5
36W	OJIBWAY TR	5
36W	PEBBLEBROOK CRT	5
48E	PENNY LANE	5
47-48E	SIGSBEE DR	5
36W	TAILFEATHER CRES	5
36W	TUSCADERO CRES	5
Meadowvale		
Zone	Street	Ward
39E	BELCARO WAY	11
39E	BREMEN LANE	11
39E	HILLSIDE DR	11
39E	MULLET DR	11
39E	PAGOSA CRT	11
39E	SHANDWICK PL	11
39E	SONNET CRT	11
39E	VANTAGE CIR	11

Streets to be Included with Biomass Criteria for 2019		
Clarkson		
Zone	Street	Ward
2	Chaucer Ave.	2
2	Burns Av.	2
2	Tennyson Ave.	2
2	Sangster Ave.	2
2	Longfellow Ave.	2
2	Roper Ave.	2
2	Whittier Ave.	2
2	McConnell Ave.	2
2	Stockwell Ave.	2
Mavis		
Zone	Street	Ward
19	Knob Hill	3
19	Fairfox Cres.	3
19	Treadwells Dr.	3
21	Kaneff Cres.	4
21	Kirwin Ave.	7
22	Anastasia Terr.	7
22	Pilcom Cres.	7
22	Pilcom Crt.	7
22	Nanak Rd.	7
22	Nanak Crt.	7
22	Luzon Cres.	7
22	Naomi Cres.	7
22	Italia Cres	7
22	Commonwelth Cir.	7
22	Redmond Rd.	7
22	Malaga Rd.	7
22	Africa Cres.	7
22	Copermocis Dr.	7
22	Croatia Dr.	7
22	Riel Dr.	7
22	Nablus Gt.	7
22	Macedonia Cres.	7
22	Walford Crt.	7
22	Karia Dr.	7
22	Archill Cres.	7
22	Omeath Crt.	7
22	Hanson Rd	7
22	Surbray Grove	7
22	Lech Walesa Dr.	7
22	Dragon Dr.	7

Appendix 4

22	Ukraine Rd.	7
27	Emerald Gate	3
27	Forest Fire Ln.	3
27	Forest Fire Cres.	3
27	Sunset Valley Crt.	3
27	Willowbank Trail	3
27	Shelby Cres.	3
27	Lingfield Cres.	3
27	Greycedar Cres.	3
27	Greycedar Crt.	3
27	Silverhaze Rd.	3
28	Angeloni Dr.	4
28	Ashridge Crt.	4
28	Bishopstroke Ln.	4
28	Dursley Cres.	4
28	Clevedon Dr.	4
28	Midhurst Ln.	4
28	Dunmow Cres.	4
28	Kelvedon Mews	4
28	Curia Cres.	4
28	Amhurst Cres.	4
28	Oxbow Cres.	4
28	Antelope Cres.	4
28	Owl Circle	4
28	Gatineau Ave.	4
28	Tribal Crt.	4
28	Washago Crt.	4
28	Gullfoot Circle	4
28	Aberfoyle Crt.	4
28	Camden Circle	4
28	Full Moon Circle	4
28	Petwawa Cres.	4
28	Mallorytown Ave.	4
28	Pemmican Tr.	4
28	Gregory Blvd.	4
28	Kettleby Crt.	4
28	Wagonwheel Crt.	4
28	Laurentian Ave	4
29	Guildwood Way	4
29	Nisbet Court	4
29	Yorkminster Cres	4
29	Thamesford Terr	4
29	Dinsmore Court	4
29	Waterford Cres	4
29	Ashley Ave	4
29	Farwell Cres	4
29	Sugarbush Road	4

29	Maripose Lane	4
29	Squire Court	4
29	Greenpark Cres	4
29	Schneider Court	4
29	Russo Court	4
29	Tea Garden Circle	4
29	Chelmsford Court	4
29	Hartfordshire Lane	4
29	Pavillion Court	4
29	Wallenberg Cres	4
29	Parkview Blvd	4
29	Turnbridge Road	4
29	Curran Place	4
29	Arbutus Way	4
29	Weymouth Commons	4
29	Hearthside Dr	4
29	Rockcliffe Gardens	4
29	Mayflower Drive	4
29	Whitelodge Cres	4
29	Kingston Court	4
29	Jenkins Cres	4
29	Cordoba Court	4
29	Bismark Cres	4
29	Dundin Cres	4
29	Empire Cres	4
29	Founders Walk	4
29	Heritage Hills Blvd	4
29	Westbourn Terrace	4
30	Crosscreek Court	6
30	Wayside Court	6
30	Silversmith Drive	6
30	Carpenter Court	6
30	Springwater Cres	6
30	Gladebrook Cres	6
30	Stonemill Court	6
30	Grassland Cres	6
30	Andiron Court	6
30	Violet Road	6
30	Beautybush Court	6
30	Roseglen Court	6
30	Rosewater Court	6
30	Santa Rosa Court	6
30	Silky Rose Court	6
30	Royal Rose Court	6
30	Rose Haven Road	6
30	Quinpool Court	6
30	Murray Hill Cres	6

30	Lucerne Cres	6
30	Whispering Wood Drive	6
30	Lastrada Heights	6
30	Erindale Station Rd	6
30	Natkarni Cr	6
30	Willow Creek Dr	6
31	Thorny-Brae Pl	8
31	Covington Terr	6
31	Flamborough Cir	6
31	Ballantrae Dr	6
31	Credit Pointe Dr	6
31	Hewick's Lane	6
31	Glastonbury Pl	6
31	Heathfield Mews	6
31	Spinningdale Crt	6
31	Tillingham Gdns	6
31	Wells Borough Pl	6
32	Lindholm Crt	8
32	Ambercroft Tr	8
32	Credit Valley Rd	8
32	Kimbermount Ave	8
32	Innisfil Rd	8
32	Longmoor Rd	8
32	Romfleild Cres	8
32	Donegal Dr	8
32	Mashdale Crt	8
32	Metcalfe Ave	8
32	Bay Vella Ave	8
32	Radisson Cres	8
32	Travistock Crt	8
32	Inchbury Rd	8
58	Dayfoot Drive	8
58	Fulwell Road	8
58	Dunoon Drive	8
58	Glasshill Gr.	8
58	Columbo Crescent	8
58	Chartrand Crescent	8
58	Hargrove Road	8
58	Bertrand Road	8
58	Halstead Road	8
58	Rushton Crescent	8
58	Renfrew Crescent	8
58	Wilmar Crescent	8
58	Rossland Crescent	8
58	Varden Court	8
58	Osbourne Road	8
58	Darwell Road	8

58	Farnsworth Crescent	8
58	Chadburn Crescent	8
58	Prentiss Road	8
58	Seebring Crescent	8
58	Sancrest Court	8
58	Dolson Court	8
59	Ingram Road	8
59	Jackpine Road	8
59	Bethune Road	8
59	Huxley Drive	8
59	Cartmel Road	8
59	Keslo Crescent	8
59	Prince Court	8
59	Ketchum Court	8
59	St. Laurent Court	8
59	Stratton Woods Court	8
59	East Park Court	8
59	Stratton Woods Gate	8
59	Cornish Road	8
59	Loyalist Drive	8
59	Baird Court	8
59	Harvey Crescent	8
59	Pettigrew Crescent	8
59	Fenwick Crescent	8
59	Charlebrook Court	8
59	Cherrington Crescent	8
59	Aubrey Road	8
59	Dovetail Mews	8
59	McMaster Road	8
59	Coldstream Road	8
59	Turnstone Crescent	8
59	Dover Crescent	8
59	Cajun Crescent	8
59	Burgess Drive	8
59	Marmac Crescent	8
59	Mulcaster Road	8
59	Valcourt Crescent	8
Malton		
Zone	Street	Ward
36W	Cortian Cres	5
36W	Whithler Cres	5
36W	Cosmic Cres	5
36W	Windy Hill Crt	5
36W	Dalmuir Mews	5
36W	Dakota Rd	5
36W	Chieftan Cir	5
36W	Tailfeather Cres	5

36W	Canital Crt	5
36W	Ojibway Trail	5
36W	Tuscadero Dr	5
36W	Ferret Crt	5
36W	Calnsman Trail	5
36W	Palomino Dr	5
36W	Trailwood Dr	5
36W	Cree Lane	5
37W	Sparkwell Dr	5
37W	Avonwick Ave	5
37W	Shillington Dr	5
37W	Talaton Trail	5
37W	Spangler Dr	5
37W	Tipton Crt	5
37W	Langport Crt	5
37W	Four Winds Way	5
37W	Menton Crt	5
37W	Fleur De Lis Crt	5
37W	Bourget Dr	5
37W	Roselaire Trail	5
37W	Lafayette Dr	5
37W	Savoy Cres	5
37W	Esprit Cres	5
37W	Patriot Dr	5
37W	Parkwood Pl	5
37W	Amesury Ave	5
37W	Stableford Terr	5
37W	Bluesky Cres	5
37W	Palomar Cres	5
37W	Sunray Dr	5
37W	Winterton Way	5
37W	Whitfield Terr	5
37W	Astwell Ave	5
37W	Richborough Dr	5
37W	Sundial Crt	5
37W	Sunrise Crt	5
37W	Northern Lights Cir	5
37W	Ceremonial Dr	5
37W	Ashprior Ave	5
37E	Firebird Trial	5
37E	Blackfoot Trail	5
37E	Glenn Hawthorne Blvd	5
37E	Springbrooke Cres	5
37E	Nishga Crt	5
37E	Salishan Cir	5
37E	Swiftcurrent Trail	5
37E	Roebuck Crt	5

37E	Wendron Cres	5
37E	Assiniboine Trail	5
37E	Naskapi Court	5
37E	Micmac Cres	5
37E	Baggetta Cres	5
37E	Heritage Hill Blvd	5
37E	Silverthorne Cres	5
37E	Everton Dr	5
37E	Willowood Dr	5
Meadowvale		
Zone	Street	Ward
37W	Winterton Way	11
38W	Arch Rd	6
38W	Earl St	6
38W	Joseph St	6
38W	Amity Rd	6
38W	River Rd	6
38W	Astrella Cres	6
38W	Ladyburn Cres	6
38W	Evenstarr Crt	6
38W	Rebecca Crt	6
38W	Kingsbank Crt	6
38W	Riverdale Cres	6
38W	Squall Crt	6
38W	Meadowfield Cres	6
38W	Moongate Cres	6
38W	Colby Crt	6
38W	Riverside Pl	6
38W	Coldwater Mews	6
38W	Oldcastle Cres	6
38W	Brightpool Cres	6
38W	Goldenbrook Dr	6
38W	Villageview Pl	6
38W	Stillriver Cres	6
38W	Mistburn Crt	6
38W	Summergrove Cres	6
38W	Wintergrove Gdns	6
38W	Evenside Cres	6
38W	Kirkrow Cres	6
38W	Calais Crt	6
38W	Riverbend Crt	6
38W	Poets Walk	6
38W	Durie Rd	6
38W	Giacco Crt	6
38W	Edencroft Cres	6
38W	Baymill Crt	6
38W	Sagwood Crt	6

38W	Manorbrook Crt	6
38W	Hidden Valley Crt	6
38W	Princelea Pl	6
38W	Chiddingstone Cir	6
38W	Rundle Crt	6
38W	Wyndham St	6
38W	Cartire Crt	6
38W	Riverway Cres	6
38E	Taw Ave	6
38E	Razorbill Crt	6
38E	Barleymow St	6
38E	Lismac Blvd	6
38E	Cinnamon Rd	6
38E	Blizzard Rd	6
38E	Alicante St	6
38E	Charminster Cres	6
38E	Buttermill Crt	6
38E	North Mill Crt	6
38E	Castlefield Dr	6
38E	Warwickshire Way	6
38E	Daniel Creek Rd	6
39W	Picton Pl	9
39W	Gardenview Cres	9
39W	Tweed Crt	9
39W	Dalebrook Cres	9
39W	Quail's Run	9
39W	Tayside Cres	9
39W	Scarath Crt	9
39W	Wokham Crt	9
39W	Advent Crt	9
39W	Raglan Crt	9
39W	Middlebury Dr	9
39W	Haddon Hall Rd	9
39W	Holbrook Rd	9
39W	Banfield Rd	9
39W	Willowburne Dr	9
39W	Charlotte Crt	9
39W	Burford Trail	9
39W	Harbour Dr	9
39W	Fieldon Rd	9
39E	Vail Crt	11
39E	Manor Hill	11
39E	Ridge Dr	11
39E	Hilton Crt	11
39E	Tiffany Crt	11
39E	Fry Brook Crt	11
39E	Forest hill Dr	11

39E	Mont Claire Dr	11
39E	Rose Gate Dr	11
39E	Mont Crest Crt	11
39E	Rothsay Crt	11
39E	Elderview Crt	11
39E	Warrendale Gate	11
39E	The Chase	11
44W	Boyer Boulevard	11
45W	Argentia Road	11
45W	Creditview Road	11
45W	Stancombe Crescent	11
45W	Hollywell Avenue	11
45W	Sir Monty's Drive	11
45W	St. Ives Way	11
45W	Tillsdown Drive	11
45W	Camgreen Circle	11
45W	Roxbury Road	11
45W	Kirkby Lane	11
45W	Organdal Drive	11
45W	Hamsmere Lane	11
45E	Diamond Court	11
45E	Estes Crescent	11
45E	Deacon Court	11
45E	Bancroft Drive	11
45E	Emerson Lane	11
45E	Whitewater Lane	11
45E	Equity Court	11
45E	Bankhead Court	11
45E	Killaby Drive	11
45E	Hardesty Crescent	11
45E	Tremaine Court	11
45E	Douguy Boulevard	11
45E	Ewing Crescent	11
45E	Swinbourne Drive	11
45E	Duford Drive	11
45E	Dendron Street	11
46W	Gananoque Drive	9
46W	Bilboa Lane	9
46W	Formentera Avenue	9
46W	Treviso Court	9
46W	Treviso Terrace	9
46W	Atherly Crescent	9
46W	Lorca Crescent	9
46W	Crickadorn Court	9
46W	Chadmout Crescent	9
46W	Arles Mews	9
53	Gazette Gate	11

53	Inuit Trail	11
53	Frontier Ridge	11
53	Waldorf Way	11
53	Wiffletree Court	11
53	Quest Circle	11
53	Visor Gate	11
53	Godwick Drive	11
53	Dishley Court	11
53	Hemingford Lane	11
53	Torrisdale Lane	11
53	Stockbridge Court	11
53	Banffshire Court	11
53	Samuelson Circle	11
53	Midlington Gate	11
53	Avon Drive	11
53	Kentchester Place	11
53	Stevington Crescent	11
53	Hallsands Drive	11
53	Overstone Lane	11
53	Windscale Lane	11
53	Sunthorpe Lane	11
53	Woodhenge Way	11
53	Danthorpe Drive	11
53	Drumcashel Court	11
53	Upton Crescent	11
53	Bannockburn Court	11
53	Branigan Gate	11
54	Gulfstream Way	9
54	Windrush Court	9
54	Tradewind Drive	9
54	Seabreeze Drive	9
54	Windbreak Court	9
54	Strata Court	9
55	Cloverleaf Court	10
55	Aldergrove Court	10
55	Pebblewood Road	10
55	Avalon Drive	10
55	Baywood Court	10
55	Dunrobin Way	10
56	Banff Court	10
56	Tenth Line West	10
56	Snow Goose Lane	10
56	Mockingbird Mews	10
56	Pintail Circle	10
56	Nutcracker Drive	10
56	Nighthawk Trail	10
56	Snowflake Lane	10

56	Longspur Road	10
56	Prairie Circle	10
56	Saltmarsh Court	10
56	Sundew Court	10
56	Greenbelt Crescent	10
56	Columbine Crescent	10
56	Gemini Crescent	10
56	Lady Slipper Court	10

Appendix 5

Streets to be Removed with Biomass Criteria for 2019		
Clarkson		
Zone	Street	Ward
1	Goodwin Rd.	1
2	Crozier Crt	2
3	Orr Rd.	2
3	Apple Ln.	2
5	Liveoak Dr.	1
5	Winterhaven Rd.	1
5	Skyline Dr.	1
5	Rometown Dr.	1
5	Parkridge Rd.	1
6	Alexander Ave.	1
6	Ninth St.	1
6	Tenth St.	1
6	Delco Ave.	1
6	Delco Crt.	1
6	Sixth St.	1
6	Northmount Ave	1
6	Pelham Ave.	1
6	Sawyer Ave.	1
6	Third St.	1
6	Gardner Ave.	1
6	Strathy Ave.	1
7	Queen St. E.	1
7	Rosewood Ave.	1
7	Carlis Pl.	1
7	Rosevelt Rd.	1
7	Troy St.	1
7	Drumgray Ave.	1
7	Marf Ave.	1
7	Elaine Tr.	1
7	Orano Ave.	1
7	Ridgemount Cres.	1
7	Northaven Dr.	1
7	Arbor Rd.	1
7	Cawthra Crt.	1
7	Kipper Ave.	1
8	Queen St. E.	1
8	Harrison Ave.	1
8	Pine Ave.	1
8	Wesley Cres.	1
8	Kane Rd.	1
8	Knareswood Dr.	1

Appendix 5

8	Mississauga Cres.	1
9	Front St. S.	2
9	Glenhill Cres.	2
9	Gregwood Rd.	2
9	Chrisede Dr.	2
10	Deanhome Rd.	2
10	Johnson's Ln.	2
10	Sabina Crt.	2
11	Benedet Dr.	2
11	Sandgate Cres.	2
11	Lundgan Dr.	2
11	Bodmin Rd.	2
11	Fontwell Cres.	2
11	Halkirk Crt.	2
11	Bodley Rd.	2
11	Sherhill Dr.	2
11	Harman Crt.	2
11	Tredmore Dr.	2
11	Brookhurst Rd.	2
12	Loreland Ave.	1
12	Nida Crt.	1
13	Melton Crt.	1
13	Hedge Dr.	1
13	Cody Ln.	1
13	Snow Cres.	1
14	Abington Ave.	7
14	Crewenan Rd.	7
14	Frayne Crt.	7
14	Pearl Tree Rd.	7
15	Appledore Cres.	7
15	Carl Anne Pl.	7
15	Cullen Ave.	7
15	Dorothea Crt.	7
15	Kenbarb Rd.	7
15	Mervette Crt.	7
15	Trident Ave.	7
15	Courrier Ln.	7
15	Richardson's Rd.	7
15	Dunbar Rd.	7
15	Rugby Rd.	7
15	King St. W.	7
16	Sharon Cres.	7
16	Conquest Dr.	7
16	Ravensthorpe Cres.	7
16	Fredonia Dr.	7
16	Sami St.	7
16	Parmeer Dr.	7

Appendix 5

16	Hemus Sq.	7
16	Paisley Blvd.	7
16	Morrison Ave.	7
16	Chisholm Crt.	7
16	Oneida Cres.	7
16	Shardawn Mews	8
17	Rathlin Crt.	8
17	Hammond Rd.	8
17	knight's Crt.	8
18	Barnstone Cres.	2
18	Hornsgate Dr.	2
18	Frankfield Rd.	2
18	Danube Crt.	2
18	Opal Crt.	2
18	Summerwood Crt.	2
18	Liruma Rd.	2
Mavis		
Zone	Street	Ward
19	Gatliff Ave.	3
19	Haven Glenn	3
19	Nobleton Dr.	3
20	Wisner Rd.	3
20	Lexicon Dr.	3
20	Streamway Cres.	3
20	Riverspray Cres.	3
20	Burningoak Cres.	3
20	Syeston Crt.	3
20	Bluestream Cres.	3
20	Greyowl Pnt.	3
20	Silver Spear Rd.	3
20	Media Crt.	3
20	Gripsholm Rd.	3
20	Riley Crt.	3
21	Burdock Pl.	4
21	Acala Cres.	4
21	Cliff Rd. N.	4
21	Galedowns Crt.	4
21	Silver Creek Blvd.	4
23	Ibbetson Cres.	6
23	Forestwood Dr.	6
23	Stainton Dr.	6
23	Frobex Crt.	6
23	McBride Ave	6
24	Winglos Crt.	6
24	Orion Cres.	6
24	Queenston Dr.	6

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24	Rooney Gate	6
24	Barchester Crt.	8
24	Glencolin Crt.	6
25	Council Ring Rd.	8
25	Spruce Needle Crt.	8
25	Greenbower Crt.	8
25	Windjammer Rd.	8
25	South Millway	8
26	Rathburn Rd. E.	3
26	Poltava Cres.	3
26	Carscadden Chase	3
27	Highgate Dr.	3
27	Ideal Crt	3
27	Corbet Dr.	3
27	Lovingston Cres.	3
30	Sagebush Trail	6
30	Magnolia Court	6
30	Queensbridge Drive	6
30	Chicory Court	6
30	Ashburnam Place	6
30	Carrying Place	6
30	Sawgrass Cres	6
31	Aldermead Rd	8
31	The Chase	8
31	Haydock Park Way	8
31	Stonemason Cres	8
31	Sawmill Valley Dr	8
31	Badminton Dr	8
31	Tattersall Way	8
32	Folkway Way	8
32	Pheasant Run	8
32	Barbican Rd	8
32	Bellwood Crt	8
32	Flitter Crt	8
32	Cathian Crt	8
32	Arbour Green Dr	8
Malton		
Zone	Street	Ward
47	Finery Crescent	5
48E	Brandon Gate Drive	5
48E	Leesburg Street	5
48E	Keenan Crescent	5
48E	Monica Drive	5
48E	Lockington Crescent	5
48E	Corliss Crescent	5
48E	Teeswater Road	5

Appendix 5

48E	Darcel Avenue	5
48E	Meyer Drive	5
48E	Morning Star Drive	5
48E	Etude Drive	5
48W	Benavon Road	5
48W	Priory Crescent	5
48W	Roselle Crescent	5
48W	Brandon Gate Drive	5
48W	Langworthy Drive	5
48W	Mallbridge Crescent	5
48W	Catalpa Road	5
48W	Shalford Road	5
48W	Etude Drive	5
48W	Sonja Road	5
48W	Honeysukle Avenue	5
48W	Michaud Avenue	5
48W	Dooley Drive	5
49E	York Street	5
49E	Ripon Street	5
49E	Cattrick Street	5
49E	Hull Street	5
49E	Sledman Street	5
49E	Burlington Street	5
Meadowvale		
Zone	Street	Ward
45W	Falconer Drive	11
45W	Kinsmen Gate	11
45W	Drain Court	11
45W	Dunray Court	11
45W	Charing Drive	11
45W	Bowshelm Court	11
45W	Bow River Crescent	11
45W	Plainsman Road	11
45W	Alpha Mills Road	11
45W	Ellesboro Drive	11
45W	Ardsley Street	11
45E	Steen Drive	11
46W	Salerno Crescent	9
46W	Shelter Bay Road	9
46W	Pamplona Mews	9
46W	Barrisdale Drive	9
46W	Montevideo Road	9
46W	Corfu Road	9
46W	Tours Road	9
46W	Windwood Drive	9
46W	Los Palmas Cout	9

Appendix 5

46W	Judique Road	9
46W	Inlake Court	9
46W	Oka Road	9
46W	Starfield Crescent	9
46W	Cheega Court	9
46W	Wabukayne Court	9
53	Willow Lane	11
53	Pond Street	11
53	Old Creditview Road	11
53	Spring Garden Court	11
55	Danton Promenade	10
55	Pendleton Road	10
56	Vanderbuilt Road	9
56	Saracen Court	9

City of Mississauga Ditched Roads		
Clarkson		
Zone	Street	Ward
1	Aviation Rd	1
1	Beach St	1
2	Contour Dr	2
2	Porcupine Ave	2
2	Hollywood Blvd	2
2	Owenwood Dd	2
2	Echo Dr	2
2	Parkland Ave	2
2	McConnell Ave	2
2	Tennyson Ave	2
2	Roper Ave	2
2	Longfellow Ave	2
2	Henderson Ave	2
2	Stockwell Ave	2
2	Chaucer Ave	2
2	Burns Ave	2
2	Sangster Ave	2
2	Whittier Cres	2
2	Crozier Crt	2
2	Godfrey's Lane	2
3	Meadow Wood Rd	2
3	Bob-O-Link Rd	2
3	Country Club Lane	2
3	Watersedge Rd	2
5	Orchard Hill Rd	1
5	Cherriebell Rd	1
5	Delta Rd	1
5	Cormack Cres	1
5	Rometown Dr	1
5	Marionville Dr	1
5	Skyline Dr	1
5	Glenwatson Dr	1
5	Kenneth Dr	1
5	Park Royale Blvd	1
5	Liveoak Dr	1
5	Clearwater Dr	1
5	Lincolnshire Blvd	1
5	Winterhaven Rd	1
6	Gardner Ave	1
6	Ebony Ave	1
6	West Ave	1

6	Greaves Ave	1
6	First St	1
6	East Ave	1
6	Westmount Ave	1
6	Eastmount Ave	1
6	Meredith Ave	1
6	Edgeleigh Ave	1
6	Strathy Ave	1
6	Ella Ave	1
6	Casson Ave	1
6	Orchard Rd	1
6	Pelham Ave	1
6	Sawyer Ave	1
6	Serson Ave	1
6	Balment Ave	1
6	Delco Ave	1
6	Brooks Dr	1
6	Asgard Dr	1
7	Richey Cres	1
7	Beechwood Ave	1
7	Hampton Cress	1
7	Byngmount Rd	1
7	Curzon Ave	1
7	Montbeck Ave	1
7	Lakeside Ave	1
7	Roosevelt Rd	1
7	Troy St	1
7	Marf Ave	1
7	Niar Ave	1
7	Jumna Ave	1
7	Lakebreeze Dr	1
7	Windy Oaks Rd	1
7	Crossfield Bend	1
7	Minnewaska Rd	1
7	Hollyrood Ave	1
7	Hollyrood Heights Dr	1
7	Oakes Dr	1
7	Goldthorpe Rd	1
7	Broadmoor Ave	1
7	Lochlin Trail	1
7	Willa Rd	1
7	Elaine Trail	1
7	Killaleigh Rd	1
7	Pinewood Trail	1
7	Briarhill Dr	1
7	Maplewood Rd	1
7	Crestview Ave	1

7	Radley Rd	1
7	Crediton Parkway	1
7	Carmen dr	1
7	Leda Ave	1
7	Lynd Ave	1
7	Garnet Ave	1
7	Drymen Cres	1
7	Exbury Cres	1
7	Ewald Rd	1
7	Kipper Ave	1
8	Ben Machree Dr	2
8	Indian Rd	2
8	Nocturne Crt	2
8	Temagami Rd	2
8	Arrowhead Rd	2
8	Kedleston Way	2
8	Stavebank Rd	1
8	Rosemere Rd	1
8	Mineola Rd E	1
8	Minaki Rd	1
8	Inglewood Dr	1
8	Woodland Ave	1
8	Veronica Dr	1
8	Mona Rd	1
8	Vesta Dr	1
8	Oriole Ave	1
8	Sandham Rd	1
8	Cotton Dr	1
8	Old River Rd	1
8	Wendigo Trail	1
8	Glenwood Dr	1
8	Birchwood Heights Dr	1
8	Victor Ave	1
8	Milton Ave	1
8	Kenollie Ave	1
8	Indian Valley Trail	1
8	Pinetree Cres	1
8	Pinetree Way	1
8	Douglas Dr	1
8	Oakhill Rd	1
8	Donnelly Dr	1
8	Dogwood Trail	1
8	Magenta Crt	1
8	Glenbournie Rd	1
9	Woodeden Dr	2
9	Tecumseh Park Dr	2
9	Tecumseh Park Cres	2

9	Algonquin Dr	2
9	Birchview Dr	2
9	Aldo Dr	2
9	South Aldo Dr	2
9	Albertson Cres	2
9	Bramblewood Lane	2
9	Festavon Crt	2
9	Queen Victoria Ave	2
9	Garden Rd	2
9	Glen Rd	2
9	Twin Oaks Dr	2
9	Ambleside Dr	2
9	Martley Dr	2
10	Crescent Rd	2
10	Elite Rd	2
10	Merrow Rd	2
10	Randor Dr	2
10	Camelford Rd	2
10	Bramsey Dr	2
10	Winslow Rd	2
10	South Sherdian Way	2
10	Wedmore Way	2
10	Bickford Dr	2
10	Christopher Rd	2
10	Chippendale Rd	2
10	Springwell Ave	2
10	Birchwood Dr	2
10	Whiteoaks Ave	2
10	Spring Rd	2
10	Jalna Ave	2
10	Ravine Dr	2
10	Hindhead Rd	2
10	Welwyn Dr	2
10	April Dr	2
10	Whittington Rd	2
10	Hartland Dr	2
12	Loreland Ave	1
12	Mattawa Ave	1
13	Melton Dr	1
13	Melton Crt	1
13	Bartlett Lane	1
13	Wedgewood Rd	1
13	Duchess Dr	1
13	Harcourt Cres	1
13	Whitney Dr	1
13	Annapolis Ave	1
13	Stewart Cres	1

13	Breezy Brae Dr	1
13	Redan Dr	1
13	Jonathan dr	1
13	Candish Lane	1
13	Wyton Crt	1
13	Guthrie Lane	1
13	Westfield Dr	1
13	Hedge Dr	1
13	Ribston Rd	1
13	Henley Rd	1
13	Insley Rd	1
13	Macintosh Cres	1
13	Russett Rd	1
13	Tolman Rd	1
13	Melba Rd	1
13	Greening Ave	1
13	Snow Cres	1
13	Harvest Dr	1
13	Courtland Cres	1
13	Wealthy Pl	1
13	Primate Rd	1
13	Kendall Rd	1
13	Rambo Rd	1
13	Watson Orchard Rd	1
13	Sidney Dr	1
15	Courrier Lane	7
15	Parker Dr	7
15	Isabella Ave	7
15	Gordon Dr	7
15	Harborn Trail	7
15	Harborn Rd	7
15	Grange Dr	7
16	Pineneedle Row	7
16	Oneida Cres	7
16	Mississauga Heights Dr	7
17	Jarvis St	7
17	Adamson St	7
17	Thompson St	7
17	Robinson St	7
17	Proudfoot St	7
17	Doulton Place	8
17	Doulton Dr	8
17	Blythe Rd	8
17	Springbank Rd	8
17	North Sheridan Way	8
18	Fowler Lane	2
18	Fowler Crt	2

Mavis		
Zone	Street	Ward
24	Credit Heights Dr	6
24	Killkee Gate	6
24	Rooney Gate	6
24	Enniskillen Cir	6
24	Flynn Cres	6
24	Dundas Cres	6
24	Ryan Place	6
24	Burbank Dr	8
24	Walnut Grove Rd	8
24	Featherston Dr	8
Malton		
Zone	Street	Ward
35E	Luke Rd	5
Meadowvale		
Zone	Street	Ward
55-57	Ninth Line	10
55	Tenth Line (North of Argentia)	10
52	Second Line West	11
53	Old Derry Rd	11
45	Old Creditview Rd	11

Financial Summary - Actual 2012 -2018 for VLCP

Appendix 7

Account Description	2012	2013	2014	2015	2016	2017	2018
Labour Cost	\$ 383,502.00	\$ 386,490.00	\$ 449,646.00	\$ 354,680.00	\$ 390,947.00	\$ 361,191.00	\$ 472,665.00
Operating Expenses (Advertising, City vehicle/Equipment and contractor costs)	\$ 1,167,330.00	\$ 1,110,280.00	\$ 1,174,847.00	\$ 705,879.00	\$ 835,386.00	\$ 1,091,657.00	\$ 1,254,532.00
Total Program Expenditures	\$1,550,832.00	\$1,496,770.00	\$1,624,493.00	\$1,060,559.00	\$1,226,333.00	\$1,452,848.00	\$1,727,197.00
Recycling Grant Price (\$ / tonne)	\$122.44	\$119.48	\$115.22	\$118.25	\$171.97	\$174.46	\$177.42
Recorded Season Total (tonne)	\$ 9,543.00	\$ 7,656.00	\$ 8,449.00	\$ 7,384.00	\$ 6,618.92	\$ 4,973.23	\$ 9,829.67
Revenue	\$1,168,444.92	\$914,738.88	\$973,493.78	\$873,158.00	\$1,138,255.67	\$867,629.71	\$1,743,980.05
Net Leaf Collection Program Cost	\$382,387.08	\$582,031.12	\$650,999.22	\$187,401.00	\$88,077.33	\$585,218.29	-\$16,783.05
Centre Line (km)	3,220.0	3,220.0	3,220.0	3,220.0	3,220.0	3,263.5	3,283.9
City's Net Cost / Tonne	\$162.51	\$195.50	\$192.27	\$143.63	\$185.28	\$292.13	\$177.62