



PUBLIC WORKS AND INFRASTRUCTURE COMMITTEE

**Thursday, February 12, 2015
4:00 PM**

Henry Baker Hall, Main Floor, City Hall



**Public Agenda
Public Works and Infrastructure Committee
Thursday, February 12, 2015**

Approval of Public Agenda

Minutes of the meeting held on January 15, 2015

Administration Reports

PWI15-2 Response to Motion #14-3 from January 27, 2014, regarding Waste Plan Regina

Recommendation

1. That MN#14-3 be removed from this committee's list of outstanding items; and
2. That this report be forwarded to City Council for informational purposes.

Adjournment

AT REGINA, SASKATCHEWAN, THURSDAY, JANUARY 15, 2015

AT A MEETING OF THE PUBLIC WORKS AND INFRASTRUCTURE
COMMITTEE
HELD IN PUBLIC SESSION

AT 4:00 PM

These are considered a draft rendering of the official minutes. Official minutes can be obtained through the Office of the City Clerk once approved.

Present: Councillor Sharron Bryce, in the Chair
Councillor John Findura
Councillor Bob Hawkins
Councillor Barbara Young

Regrets: Councillor Terry Hincks

Also in Attendance: Council Officer, Mavis Torres
Legal Counsel, Mark Yemen
Executive Director, City Services, Kim Onrait
Executive Director, Transportation & Utilities, Karen Gasmol
A/Director, Roadways and Transportation, Les Malawski

APPOINTMENT OF CHAIRPERSON

The Secretary called the meeting to order and following nomination procedures for the position of Chairperson, Councillor Sharron Bryce was declared Chairperson of the Public Works and Infrastructure Committee for 2015.

(Councillor Bryce took the Chair.)

APPOINTMENT OF VICE-CHAIRPERSON

Following nomination procedures for the position of Vice-Chairperson, Councillor Bob Hawkins was declared Vice-Chairperson of the Public Works and Infrastructure Committee for 2015.

APPROVAL OF PUBLIC AGENDA

Councillor Barbara Young moved, AND IT WAS RESOLVED, that the agenda for this meeting be approved, as submitted.

ADOPTION OF MINUTES

Councillor Bob Hawkins moved, AND IT WAS RESOLVED, that the minutes for the meeting held on December 4, 2014 be adopted, as circulated.

ADMINISTRATION REPORTS

PWI15-1 Increase in Engineering Services for the Roadway Widening and Improvements on Victoria Avenue East Between Prince of Wales Drive and Coleman Crescent

Recommendation

That this report be forwarded to the January 26, 2015 meeting of City Council for information purposes only, as required by the *Purchasing Procedure Manual – Appendix C – Delegation of Authority and Authorization Levels*.

Councillor John Findura moved, AND IT WAS RESOLVED, that the recommendation contained in the report be concurred in.

ADJOURNMENT

Councillor Bob Hawkins moved, AND IT WAS RESOLVED, that the meeting adjourn.

The meeting adjourned at 4:08 p.m.

Chairperson

Secretary

February 12, 2015

To: Members,
Public Works & Infrastructure Committee

Re: Response to Motion #14-3 from January 27, 2014, regarding Waste Plan Regina

RECOMMENDATION

1. That MN#14-3 be removed from this committee's list of outstanding items; and
2. That this report be forwarded to City Council for informational purposes.

CONCLUSION

The goals of Waste Plan Regina are to provide an integrated solid waste management plan for the collection and disposal of waste, balancing program affordability with community needs while implementing a plan that considers both efficiencies and revenue opportunities. The residential Blue Cart recycling program was implemented less than two years ago and is still in its infancy. Over the next few years, the City will focus its efforts on changing recycling behaviours by raising public awareness and encouraging participation in the residential recycling program. In preparing the response to Motion #14-3, a summary of program results and a renewed plan for further implementation of waste diversion services was compiled. This summary is appended to this report as *Waste Plan Regina – 2014 Annual Report*.

The current recycling user fee reflects the cost of providing the Blue Cart curbside recycling service. This fee of 25 cents per day, equivalent to \$91.25 per year, was approved by City Council in 2012 and is in effect until the end of the current year. The fee was introduced less than two years ago and residents have accepted the fee as the cost for the service. A fee for garbage collection service would be substantially higher than the current fee for recycling collection due to the volumes of waste and collection frequency.

Within the next few years, the Administration will consider a single solid waste user fee that would reflect the cost of all residential curbside waste services, including both garbage and recycling. It is expected that an all-inclusive user fee alongside a maturing recycling program will result in higher public awareness of both the cost and the need to divert and reduce waste. As such, funding the recycling program through general revenues and charging for garbage is not recommended at this time.

This year, the City will introduce an option for residents to choose a smaller garbage cart when receiving new service or replacing a cart due to failure. Although no financial incentive will be offered at this time, the option to select a smaller cart will provide residents the opportunity to demonstrate their social and environmental awareness to reduce waste. As the recycling program matures and more opportunities for diverting material from the waste stream are made available, the Administration will review and consider the effect of financial incentives on reinforcing recycling behaviours.

At present, it would be premature to alter the frequency of recycling and garbage collection until such time as both the volume of recyclable materials has increased and the rate of unacceptable material deposited into the blue carts has decreased. Additionally, a solution for the diversion of food and organic waste must be considered due to the public health and safety implications associated with this stream of waste.

BACKGROUND

On January 27, 2014, City Council passed Motion #14-3 (“the Motion”):

“*AND IT WAS RESOLVED that:*

- 1. The Administration provide a report to City Council via the Public Works Committee in September 2014 that provides options on the capability of the City of Regina to have the recycling program covered by annual property taxes and to change solid waste collection to a fee for service use where residents have the option of choosing the size of bin they require.*
- 2. The report include the feasibility of providing the recycling collection on a weekly basis and garbage collection on a bi-weekly system.”*

DISCUSSION

The Administration has reviewed the items introduced in the Motion, namely that:

- The recycling program be covered by general revenues and solid waste collection be funded through a fee for service wherein residents have the option of choosing the size of garbage cart they require; and
- The feasibility of providing the recycling collection on a weekly basis and garbage collection on a bi-weekly basis be explored.

In preparing the response to Motion #14-3, a summary of program results and a renewed plan for further implementation of waste diversion services was compiled. This summary is appended to this report as *Waste Plan Regina – 2014 Annual Report* (Appendix A).

Fee for Service or General Revenue

Since its implementation in July 2013, residents have recognized and accepted the fee associated with recycling services. Results from a residential survey conducted as part of Waste Plan Regina indicated that two thirds of respondents were willing to pay up to \$10 or more per month for curbside recycling services. Financial analysis indicates that a fee for garbage collection service would be substantially higher than the current fee for recycling collection. Costs to deliver garbage collection services are higher due to processing greater volumes of waste material in addition to more frequent collection. Varying fees for different cart sizes would also introduce additional administrative costs associated with tracking different service levels. As well, the option to pay a lower fee for a smaller cart may encourage residents to select a smaller cart solely based on the desire to pay less, rather than to recycle more.

Moving forward, the Administration will consider a user fee structure where all regularly-scheduled curbside waste services, including garbage, recycling, and potentially a leaf and yard waste and food and organic curbside collection service, comprise a single solid waste user fee. This fee would bring awareness to residents of the cost to provide curbside waste services. Additionally, an all-inclusive fee structure would transition all solid waste curbside services to

full-cost recovery. Consideration will be given to community-based services, such as Big Blue Bin and other depot services, to be funded by general revenues. As the recycling program matures over the next few years, opportunities to provide service level options to individual single-family homes will be reviewed. As such, funding the recycling program through general revenues and charging a user fee for garbage is not recommended at this time.

Garbage Cart Capacity

The introduction of the curbside recycling cart on July 1, 2013, doubled a single-family home's total curbside waste disposal/diversion capacity. By placing recyclable materials into the recycling cart, less waste would be disposed of in garbage carts. This has been confirmed by a reduction in residential household waste taken to the landfill over the last year (Appendix B). However, curbside audits have also indicated that 42 per cent of garbage carts continue to be completely full when rolled out to the curb on collection day.

The audits have also shown that 19 per cent of the garbage carts placed out for collection contained recyclable material. A reduction in garbage cart capacity may encourage residents to increase their recycling efforts due to having less storage capacity for household waste. However, there is also a risk that it may result in higher volumes of unacceptable material in recycling carts. In the event that residents find their garbage carts at capacity, placing excess garbage into the recycling bin may be used as an easy alternative for disposing of waste. Along with reducing the volume of recyclable materials in the garbage carts, introducing smaller garbage carts requires the ability for the resident to divert other types of waste. Developing programs for curbside diversion of materials such as leaf and yard waste, and potentially food and organic waste in the future could significantly reduce garbage cart capacity requirements.

This year, the City will provide residents with an option to reduce the size of their garbage cart when requesting a new service or replacing a cart due to failure. Although no financial incentive will be offered at this time, the option to select the smaller cart will provide residents the opportunity to demonstrate their social and environmental awareness to reduce waste. No additional costs will be incurred by the City as the automated solid waste collection trucks in the City's fleet are capable of handling varying sizes of garbage carts. City trucks currently handle a 360L cart, and the smaller 240L cart would be manageable without any modifications.

Collection Frequency

The City has entered into an eight year contract with Loraas Disposal to deliver bi-weekly recycling collection service to single-family homes. This contract expires June 30, 2021 with the option to renew for two consecutive one-year periods. Of the \$91.25 annual recycling user fee, \$40 represents the cost of the bi-weekly collection. Increasing the collection to a weekly service would result in an increase to those costs and annual user fee.

Curbside audits have found that 83 per cent of the recycling carts set out for collection are at least 50 per cent full when rolled out to the curb. Additionally, 41 per cent were found to have some level of unacceptable material in the cart. The Administration acknowledges that the collection frequency may need to be increased as the recycling program matures, however the need for an increase in collection frequency is not indicated at this time.

A Waste Characterization Study included in Waste Plan Regina revealed that 10-22 per cent of waste material was made up of food and organic waste. This includes items such as raw and cooked foods, soiled food containers, and pet waste. Although this category is not the most significant by volume, it is the most significant in presenting public health and safety issues. It decomposes, smells bad, and attracts rodents and insects.

In order to change the frequency of garbage collection, a permanent solution for the diversion of food and organic waste is strongly recommended, simply based on the nature of the waste and the potential odour it causes during the summer months. The Administration will begin researching alternatives other municipalities have implemented with regard to the diversion of food and organic waste. As long as this waste is disposed of in the garbage, bi-weekly collection is not recommended, considering the potential public health and safety ramifications.

In preparing the response to Motion #14-3, the implementation plan (Appendix A – Table 2) of the remaining diversion services was reviewed. Changes to cart size, collection frequency and the user fee will be reviewed continually as the program matures. Current efforts will focus on reinforcing how to use the residential recycling program to its full advantage as well introducing additional services that will move us toward meeting our diversion targets.

RECOMMENDATION IMPLICATIONS

Financial Implications

None with respect to this report.

Environmental Implications

The City's waste diversion programs are an integral part of the integrated solid waste management plan for the collection and disposal of waste, ensuring protection of the natural environment now, and for future generations.

Policy and/or Strategic Implications

Continued support and improvement to the City's waste diversion programs supports our Community Priority to promote environmental sustainability by embracing leading practices for waste management.

Other Implications

None with respect to this report.

Accessibility Implications

None with respect to this report.

COMMUNICATIONS

The City will continue to reinforce how to use the Blue Cart recycling program to its full advantage. As well, public education will be focused on raising public awareness of how diverting waste contributes to an attractive and sustainable community.

DELEGATED AUTHORITY

There is no delegated authority associated with this report as it is being provided for information purposes only.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "L. Legault".

Lisa Legault, Director
Solid Waste

Report prepared by:
Lisa Legault, Director, Solid Waste
LL/bjd

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Karen Gasmo".

Karen Gasmo, Executive Director
Transportation & Utilities

APPENDIX A

Waste Plan Regina – 2014 Annual Report

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EXECUTIVE SUMMARY

In 2009, a solid waste management plan known as Waste Plan Regina was developed to review the ways in which the City of Regina (“the City”) was managing its solid waste, and to consider alternatives for meeting and overseeing the long term solid waste management and diversion needs of the community.

The goals of Waste Plan Regina are to provide an integrated solid waste management plan for the collection and disposal of residential and commercial waste, balancing program affordability with community needs while implementing a plan that considers both efficiencies and revenue opportunities.

On January 18, 2011, City Council approved Report CR10-147, titled ‘Waste Plan Regina - Implementation Plan.’ With this, City Council adopted the Residential Enhanced Service Level (see Appendix 1). City Council’s objective is to divert 40 per cent of residential waste away from the Fleet Street Landfill (“the Landfill”) by 2015, and 65 per cent by 2020.

Since the introduction of Blue Cart recycling for single-family homes on July 1, 2013, the City’s combined diversion services have achieved a diversion rate of 18.4 per cent. Anticipated volumes of recyclable material from the Blue Cart program have not been reached primarily due to the level of participation in the program and the volume of unacceptable materials collected. Seventy-two per cent of homes set out their recycling cart on a regular basis. On average, 15.8 per cent of the material collected is considered unacceptable. Waste diversion depots, such as the seasonal leaf and yard waste depots as well as the household hazardous waste days have experienced increased participation with each subsequent event.

The Administration anticipates continued progress toward meeting our diversion targets. The residential recycling program was implemented less than two years ago and is still in its infancy. Over the next few years, the City will focus its efforts on increasing participation in the Blue Cart Recycling Program and reducing the volume of unacceptable materials deposited into recycling carts. This will be achieved by:

- Reinforcing how to use the Blue Cart recycling program to its full advantage: using effective methods to remind residents of collection days, as well as clarifying and enforcing what is and is not recyclable;
- Raising social awareness by informing the public of how diverting waste contributes to an attractive and sustainable community now, and for future generations;
- Providing additional diversion opportunities for the disposal of recyclable materials currently not included in the program;
- Providing additional end uses for recycled glass; and
- Introducing smaller garbage carts to reflect decreasing garbage volumes.

As well, moving forward, the Administration will provide City Council with a report annually, updating the status of Waste Plan Regina.

CURRENT PROGRAM AND SERVICES

The City currently provides the following solid waste collection services to approximately 62,000 single-family residential properties:

- 360L rollout bin for weekly collection and disposal of household waste; and
- 360L rollout bin for bi-weekly collection and processing of household recyclables.

Garbage services for multi-family properties are currently delivered through the private sector. Mandatory multi-family recycling became effective January 1, 2015 and is also being delivered through the private sector.

In addition to these services, the City provides the following programs (detailed in Appendix 2):

- Seasonal leaf and yard waste depots;
- Christmas tree depots;
- Household hazardous waste events;
- Big Blue Bin – paper and cardboard recycling depots;
- Backyard composting and waste reduction workshops; and
- Appliances, scrap metal and tree diversion at the Landfill site.



Big Blue Bin Recycling Depot



Household Hazardous Waste Day Oct. 2014



Home and Garden Show Recycling Workshop



Leaf & yard waste delivered to compost farm

2014 RESULTS

Diversion Target

Over the past 18 months since the introduction of single-family recycling, the combined diversion services have achieved a diversion rate of 18.4 per cent. Table 1 summarizes the diversion program results to date (July 1, 2013 - December 31, 2014).

Table 1 - Solid Waste Diversion Program Results (July 2013 - Dec 2014)

Name of Program/Service	Tonnes Collected	%
Curbside Programs		
Single-Family Blue Cart Recycling	16,229.00	12.58
Depot Programs		
Big Blue Bin Program	2,081.70	1.61
Household Hazardous Waste	72.20	0.06
Leaf & Yard Depots	421.20	0.33
Christmas Tree Depots (Treecycle)	81.50	0.06
Materials Diverted at Landfill (Note 1)		
Concrete	2,752.00	2.13
Recycled Asphalt	323.00	0.25
White Goods	32.00	0.02
Scrap Metal	486.00	0.38
Trees and Shrubs	1,247.80	0.97
Total Tonnage Diverted:	23,727.00	18.40

Note 1: Tonnages shown reflect only materials originating from residential properties.

Although the results of the Blue Cart recycling program reflect those typical of a new service, forecasted volumes of acceptable recyclable materials have not been achieved. Operational and financial forecasting was based on an anticipated minimum collection of 15,000 tonnes per year. Over the 18 month period ending December 2014, 16,229 tonnes (5,725 tonnes in 2013; 10,504 tonnes in 2014) had been collected through the Blue Cart Recycling Program. Volume levels are directly affected by two factors: residents' participation in the program (cart set-out rates) and unacceptable materials (contamination) being placed into the recycling cart.

Currently, the set out rate for recycling carts averages 72 per cent. Conversely, 28 per cent of homes equipped with a recycling cart do not participate in the program on a regular basis. Of the material collected for recycling, on average 15.8 per cent is unacceptable material. Contamination rates in a mature program are typically between 5 – 10 per cent. Non-recyclable materials, such as household waste, leaf and yard waste, as well as materials that are considered reusable, but not acceptable in the City's Blue Cart program, are considered "contamination" when placed in recycling carts.

The City needs to support residents by raising awareness of the part they play in the overall management of their waste. At present, education and public outreach on what can and cannot be recycled is fundamental to ensure that waste is being placed in the proper waste stream. In order to work toward this goal, a variety of events were developed in 2014 (Appendix 3) and will continue to be delivered throughout 2015 and beyond. Significant investment in the Waste Plan Regina communication plan has been made, which included a follow-up campaign to reinforce the benefits of recycling, how the program is working, successes, and what can be done better. This campaign ran in Fall 2014.

Moving forward, the Administration will consider additional recyclable materials that can be added to the Blue Cart program, such as plastic bags, film, and polystyrene, with the goal of increasing volumes and potentially turning “contaminants” into acceptable material for recycling. An element of this research will include re-evaluating the Big Blue Bin program to determine if continuation, cessation, or possibly a change in program focus can result in increased volumes of acceptable recyclable materials. As well, the feasibility of implementing a by-appointment bulky waste (furniture and appliances) program will be explored to determine if it will achieve additional diversion of reusable or recyclable materials from the Landfill.

User Fees and Program Costs

At year-end, financial reports indicated that the recycling user fee charged to residents had successfully covered the costs of providing curbside collection services. Processing fees paid by the City to the material processor, Emterra Environmental (“Emterra”) are based on both volume and contamination rate. Higher volumes coupled with a lower contamination rate results in a lower processing fee per tonne. Collection costs are calculated for all carts in service, regardless of whether or not they are set out.

However, continued contamination and low set-out rates may have a negative impact on the costs of the program over time, potentially resulting in an increase in cost to residents. The current user fee expires December 31, 2015. A full financial review and a new recommendation for the fees associated with providing recycling collection services will be brought forward for City Council’s consideration later this year.



Glass Recycling

Glass continues to be a challenge for the residential recycling program. At this time only intact glass is being recycled effectively. Refundable glass is taken to SARCAN, and non-refundable glass is transferred to a local manufacturing company.

Broken glass and other materials referred to as “fines,” are natural by-products of collecting and processing recyclable material in recycling facilities across the country. Examples of fines include broken ceramics, glass, and Pyrex baking dishes, stones, dirt, and organics. There are beneficial downstream uses for broken glass provided it is relatively clean and sorted from the other “fines.” Emterra is currently in the process of installing equipment to aid in this sorting process. This enhanced process to produce clean glass pieces will provide the City’s Landfill with material for use in its road construction program. Use of glass in roadway construction is a common practice at recycling and landfill facilities throughout North America.

Multi-Family Recycling

On January 1, 2015 multi-family property owners were required to establish access to a recycling service for all tenants. As of January 12, 2015, 45 per cent of the 878 identified properties (representing approximately 26,000 units) reported that a recycling service for their property had been implemented. The City continues to monitor waste plan submissions from property owners and will work directly with the remaining properties to bring them into compliance over the next six months. The goal is to obtain compliance through education and outreach. Action under the *Waste Management Bylaw, 2012* will be the last resort.



Funding for recycling services from Multi-Material Stewardship West (MMSW)

MMSW's Waste Packaging and Paper Stewardship Plan ("the Plan") was scheduled to be implemented on January 1, 2015. Funds collected from stewards (paper and paper product producers) would be directed to municipalities and First Nations partners to support recycling services. Based on the funding model, the City was potentially eligible to receive approximately \$930,000 of funding in 2015. This funding agreement was approved by City Council.

On December 18, the Ministry of Environment announced changes to the Plan that would provide exemptions to certain stewards, creating uncertainty as to the level of funding available. On December 23, 2014, MMSW terminated the funding agreements with all municipalities and First Nations partners in light of the Ministry's decision. This program is currently "on hold" with an expected re-launch sometime in 2015. The potential funding amount from this program was not included in the City's 2015 Budget, and thus has no impact to ongoing operations in 2015.

WASTE PLAN REGINA – MOVING FORWARD

The Administration has a multi-year plan for the continued implementation of the remaining elements of the Residential Enhanced Service Level Option as well as additional operational and service changes. This plan, as outlined below in Table 2, consists of several elements aimed at achieving the 40 per cent diversion target, and moving towards the 65 per cent diversion target by 2020 for residential waste collection.

Table 2 - Waste Plan Regina Moving Forward

Date	Implementation
2015	<ul style="list-style-type: none"> • Continue to support the current waste diversion services through public education and a recycling reinforcement communication campaign • Continue ongoing curbside waste audits to ascertain the waste disposal behaviours of residents • Research leaf and yard waste collection options • Provide residents an option to choose smaller garbage carts when requesting new service or replacement due to cart failure • Bring forward recommendations to City Council for 2016-2018 Landfill Fees and Recycling User Fees
2016	<ul style="list-style-type: none"> • Bring forward a recommendation to City Council related to the future of Big Blue Bin Program • Bring forward a recommendation to City Council for a permanent service for leaf and yard waste collection • Conduct an updated Waste Characterization Study to determine the effect of residential recycling on waste composition at the Landfill
2017	<ul style="list-style-type: none"> • Implement Big Blue Bin decision • Implement permanent leaf and yard waste collection service • Research by-appointment bulky waste collection service alternatives
2018 onward	<ul style="list-style-type: none"> • Bring forward a recommendation to City Council for a single solid waste user fee for all regularly scheduled curbside services (effective 2019) • Continue ongoing curbside waste audits to ascertain the waste disposal behaviours of residents • Research and consider the opportunities of a weekly food and organic waste collection service • Bring forward a recommendation to City Council bulky waste collection alternatives • Re-evaluate collection frequencies of curbside collection services based on results from ongoing curbside audits.

APPENDIX 1

Residential Service Level Options

Current Plus

Service Options:

- Curbside garbage & landfill
- Active promotion of Backyard Composting
- Expanded Recycling Depots (L&Y depots)
- Christmas Tree collection and processing
- Household Hazardous Waste events

Supporting Mechanisms:

- Promotion and education
- Goods exchange events
- Customer reward program
- Voluntary grasscycling

Current Plus:

- Potential diversion – 15-20% (current 16% diversion)
- Cost – \$120-\$140/HH/year (current \$110/HH/year)

Enhanced

Service Options:

- Curbside garbage & landfill
- Active promotion of Backyard Composting
- Single family curbside recycling
- Multi-family recycling
- Curbside Seasonal L&Y and Christmas tree collection
- Permanent HHW Facility (less frequent operation)
- Curbside bulky/white goods

Supporting Mechanisms:

- Promotion and education
- Goods exchange events
- Customer reward program
- Grass ban
- Green Procurement Education
- Outreach Program
- User pay for garbage

Current Plus:

- Potential diversion – 30-40%
- Cost – \$220-\$240/HH/year

Comprehensive

Service Options:

- Curbside garbage & landfill
- Single Family Curbside Recycling
- Multi-family Recycling
- Curbside Bi-weekly L&Y and Christmas tree collection
- Curbside Food Waste Collection
- Permanent HHW Facility (more frequent operation)
- Curbside bulky/white goods

Supporting Mechanisms:

- Promotion and education
- Goods exchange events
- Customer reward program
- Grass ban
- Green Procurement Education
- Outreach Program
- User Pay for Garbage
- Reduced Freq of Garbage collection
- Mandatory recycling

Current Plus:

- Potential diversion – 50-65%
- Cost \$280-320/HH/year

APPENDIX 2

Waste Plan Regina Residential Enhanced Service Level Status Update on Approved Services

Service Option	Status	Comments
Curbside garbage and landfill	Completed	<ul style="list-style-type: none"> • Effective Spring 2013 • 360L cart capacity • Weekly collection schedule • Funded through general revenues
Active promotion of backyard composting	In progress	<ul style="list-style-type: none"> • In 2014, nine waste reduction & composting presentations were provided to residents at various libraries and community centres • Composting presentations were provided at the Spring 2014 Home & Garden Show
Single-family curbside recycling	Completed	<ul style="list-style-type: none"> • Effective July 1, 2013 • 360L cart capacity • Bi-weekly collection schedule • Fully funded user fee model (\$91.25 per year or \$0.25 per day)
Multi-family recycling	Completed	<ul style="list-style-type: none"> • Effective January 1, 2015 • Service provided by property owners • Service mandated through the <i>Waste Management Bylaw, 2012</i> • Compliance is being monitored
Curbside seasonal leaf, yard and Christmas tree collection	Interim	<ul style="list-style-type: none"> • In 2012, curbside leaf and yard collection pilot project was conducted; information will be used when developing alternatives for the future permanent service • Since Spring 2013, a leaf and yard depot service has been provided in the Spring and Fall • Since 2011, seasonal Christmas tree depots have been provided ("Treecycle") • Depot services will continue until a permanent service has been implemented
Permanent Hazardous Household Waste Facility	Interim	<ul style="list-style-type: none"> • Since fall 2013, a bi-annual event has been offered; hazardous waste, bulky waste, white goods, tires and used clothing and books are collected • Events will continue to be provided until a permanent solution is in place
Curbside bulky waste/white goods collection	Interim	<ul style="list-style-type: none"> • White goods can currently be taken to the Landfill, where they are segregated and recycled • Household Hazardous Waste days are also an option for disposal

APPENDIX 3

2014 Public Outreach Events

Event	Date	Details
Treecycle Depots	Dec 2013 - Feb 2014 Dec 2014 – Jan 2015	Waste bins located at four locations within the City. City staff available on Saturdays to assist residents.
Farmers Market	March 8, 13	Located at University of Regina and Cathedral Community Centre. Promoted reusable items, Household Hazardous Waste Day 2014, Blue Cart recycling and composting.
U of R Sustainable Campus Engagement Session	March 11	Assisted the University of Regina develop a plan for to create an environmentally sustainable campus.
Farmers Market	April 10, 26	Promoted reusable items, Household Hazardous Waste Day 2014, Blue Cart recycling and composting.
Waste Reduction and Composting Presentations	March 27-30 April 5, 12, 14 & 22 June 25 & July 29 Sept 9, 13, 20, 25, & 30	Provided Backyard Composting presentations informing residents about composting methods and how to properly maintain a compost bin. The March presentations took place at the Home & Garden show.
Earth Day	April 22	Provided a Backyard Composting presentation at the Sunrise Library.
Household (Hazardous) Waste Day	May 10 Oct 4	Drive-through at Public Works Yard. Partnered with Sask Scrap Tire Corp, Salvation Army, Habitat for Humanity Re-Store and Sask Electronic Products Recycling Association. Collected hazardous waste along with major appliances, tires, electronics, toys, books and bedding.
Public Works Day	May 21	Geared to school aged children. Promoted recycling.
Leaf and Yard Waste Depots	May 3 - Jun 7 Oct 4 – Nov 8	Provided four depot locations around Regina for residents to drop off their yard and garden waste for composting.

APPENDIX B

