Minute No. 606
Reports – Standing Policy Committee on Water, Waste and Environment – June 23, 2023

Item No. 5 2022 Comprehensive Integrated Waste Management Strategy (CIWMS) Annual Report

COUNCIL DECISION:

Council concurred in the recommendation of the Standing Policy Committee on Water, Waste and Environment and adopted the following:

1. That the report be received as information.

Reports – Standing Policy Committee on Water, Waste and Environment – June 23, 2023

DECISION MAKING HISTORY:

Moved by Councillor Mayes,

That the recommendation of the Standing Policy Committee on Water, Waste and Environment be adopted by consent.

Carried

EXECUTIVE POLICY COMMITTEE RECOMMENDATION:

On July 5, 2023, the Executive Policy Committee concurred in the recommendation of the Standing Policy Committee on Water, Waste and Environment and submitted the matter to Council.

STANDING COMMITTEE RECOMMENDATION:

On June 23, 2023, the Standing Policy Committee on Water, Waste and Environment concurred in the recommendation of the Winnipeg Public Service and submitted the matter to the Executive Policy Committee and Council.

COUNCIL DECISION:

On June 20, 2019, Council concurred in the recommendation of the Standing Policy Committee on Water and Waste, Riverbank Management and the Environment and adopted the following:

1. That the Public Service report back to Council annually on the amount of residential waste created (generation) per capita, sent to a landfill (disposal) per capita, and recycled/composted/etc. (diverted) per capita as measures of performance.

2. That the Public Service develop a source separated organics pilot program and report back to Council with recommendations for the pilot project.

3. That the Public Service report back to Council by the third quarter of 2020 with a ten-year financial plan for the Solid Waste Utility, including recommendations for waste diversion programs.

4. That the development of the multi-family waste diversion fee be included with the ten-year financial plan (Recommendation 3).

Reports – Standing Policy Committee on Water, Waste and Environment – June 23, 2023

DECISION MAKING HISTORY (continued):

COUNCIL DECISION (continued):

5. That the 50% waste diversion target, as approved by Council on October 19, 2011, be deferred so that Public Service can recommend a revised waste diversion target after completion of the recommended source separated organics pilot program (Recommendation 2) and ten-year financial plan (Recommendation 3).

6. That the Proper Officers of the City be authorized to do all things necessary to implement the intent of the foregoing.

ADMINISTRATIVE REPORT

Title: 2022 COMPREHENSIVE INTEGRATED WASTE MANAGEMENT STRATEGY (CIWMS) ANNUAL REPORT

Critical Path: Standing Policy Committee on Water, Waste and Environment – Executive Policy Committee – Council

AUTHORIZATION

Author	Department Head	CFO	CAO
M. Gordichuk, CCLP, Manager, Solid Waste Services	T. W. Shanks, M. Eng., P. Eng., Director, Water and Waste Department	N/A	M. Jack

EXECUTIVE SUMMARY

The Annual Report to Council summarizes the activities and financial results for 2022.

2022 was the 10th full year of implementation of the Comprehensive Integrated Waste Management Strategy (CIWMS) since beginning in the last half of 2012.

2022 program results include a:
- decrease in the residential waste diversion rate to 29.9 percent;
- decrease to per capita residential waste generation of 2.8 percent;
- decrease to per capita residential garbage generation of 3.5 percent;
- decrease in the number of visits to 4R Winnipeg Depots by 20.9 percent; and a
- decrease in the amount of materials managed at 4R Winnipeg Depots by 13.2 percent.

Overall, there was a decrease to the amount of waste managed in 2022 compared to 2021.

RECOMMENDATIONS

That this report be received as information.

REASON FOR THE REPORT

On October 19, 2011, Council approved the Comprehensive Integrated Waste Management Strategy (CIWMS). Recommendation No. 28 of the CIWMS requires: That the Winnipeg Public Service publish an annual report on the status of the Master Plan.

IMPLICATIONS OF THE RECOMMENDATIONS

There are no implications associated with the recommendation of the report.

HISTORY/DISCUSSION

In 2009, more than 283,000 tonnes of residential material were landfilled within the City of Winnipeg and 54,000 tonnes of residential material were recycled and composted. This resulted in a diversion rate of about 15 percent which was one of the lowest in Canada. At the same time, the Public Service was recommending changes to the garbage and recycling collection systems based on feedback from collectors, industry trends and other municipalities in North America.

As a result, in June 2010, Council directed the Public Service to create a waste diversion strategy in consultation with the public, to increase the waste diversion rate, explore options for material collection and provide uniform service for Winnipeg residents. Working with a consultant and through an extensive public engagement process, a made-for-Winnipeg plan was developed.

On October 19, 2011, Council approved the Comprehensive Integrated Waste Management Strategy (CIWMS) with the overall strategy to increase Winnipeg's diversion rate to 35 percent by 2016 and to greater than 50 percent by 2022 and thereafter. Implementation of the plan began in the last half of 2012, with 2013 being the first full year of the program.

OurWinnipeg 2045 identifies the need to carry out a comprehensive waste management strategy, to integrate and optimize the service level and efficiency of all facets of the solid waste management system, while minimizing environmental impacts. Winnipeg's Climate Action Plan and Community Energy Investment Roadmap further support actions to increase waste diversion efforts and minimize solid waste greenhouse gas emissions.

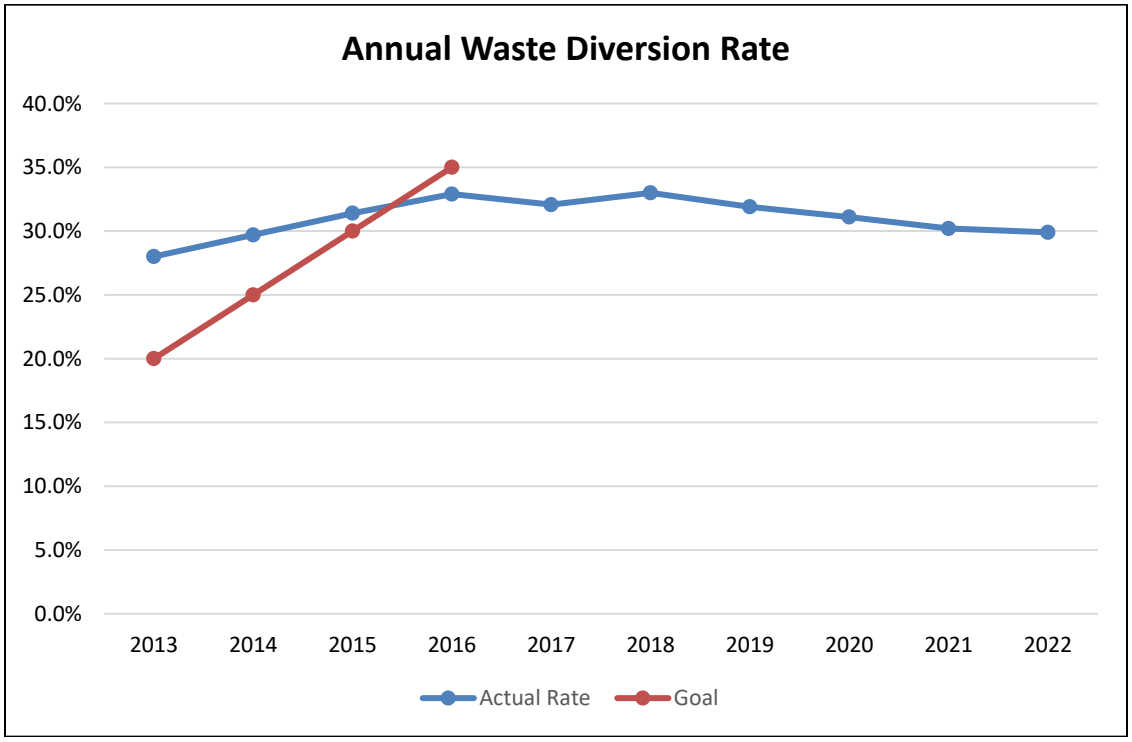
PROGRAM RESULTS – 2022

1. Residential Waste Diversion

The residential waste diversion rate decreased to 29.9 percent in 2022 from 30.2 percent in 2021.

The residential waste diversion rate is calculated as a percentage of the total diverted residential tonnage divided by the total residential tonnage of material landfilled and diverted. This aligns with the *Generally Accepted Principles for Calculating Municipal Solid Waste System Flow* manual, which is consistent with the methodology of the other cities that participate in Municipal Benchmarking Network Canada. The methodology reflects minor changes to the calculation of backyard composting, bottle deposit returns (beer bottles and cans), and residuals tonnages.

The following graph highlights the waste diversion goals established by CIWMS to 2016, as well as the actual rate for the past ten years (2013-2022). It highlights that, while the rate increased over this period, the City has not reached its initial goal of a 35 percent diversion rate by 2016. Over the past five years (2018 to 2022), the average diversion rate has been 31.2 percent.



A significant increase to the waste diversion rate will not occur without the introduction of a city-wide Green Cart Program.

2. Waste Generation

Waste generation is an indicator of system performance and provides additional detail to the waste diversion rate. It measures the overall amount of waste produced within a community. Measuring the tonnage of waste generated per capita is recognized as a key indicator of system performance by the Municipal Benchmarking Initiative Canada (MBNC), as it can more accurately reflect the variabilities of diversion programs, such as the continued light weighting of recyclable materials and natural variations in leaf and yard waste (LYW).

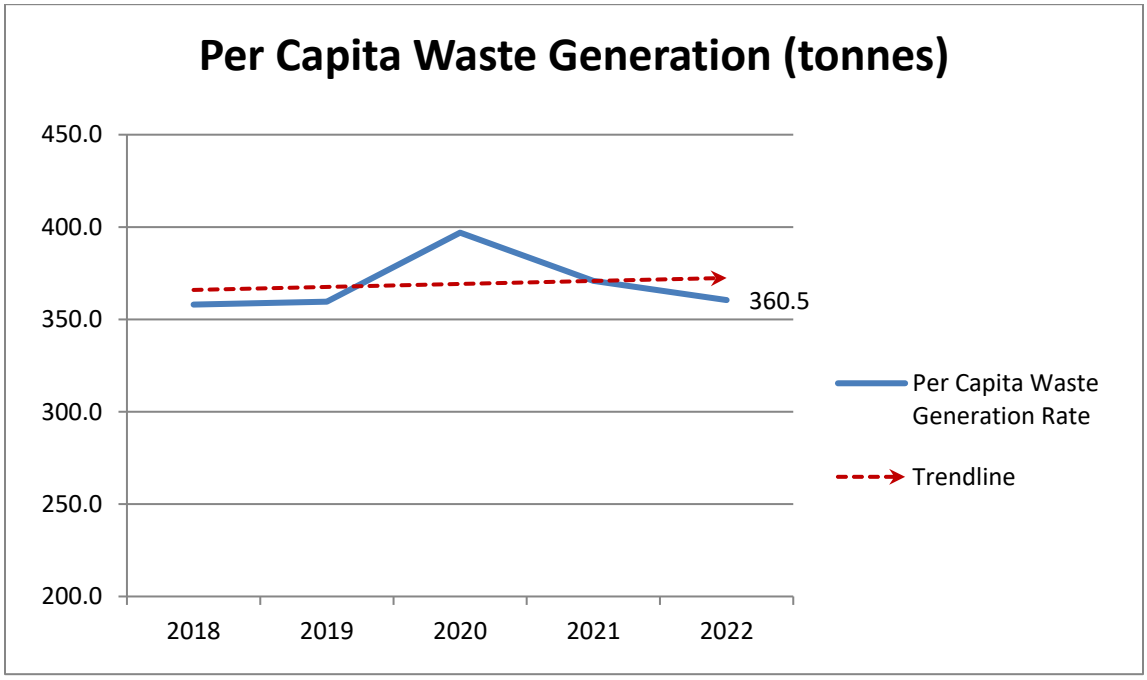
There was a decrease to residential waste generated in 2022 compared to 2021. In 2022, total residential waste generated was approximately 282,280 tonnes, compared to 284,700 tonnes in 2021, a decrease of 2.8 percent. During this time, Winnipeg's population grew from 767,500 people to 783,096 people, an increase of two percent. As a result, in 2022, the per capita waste generation was approximately 361 kg, compared to 371 kg in 2021, a decrease of three percent.

The per capita garbage generation was approximately 249 kg, compared to 259 kg in 2021, for a decrease of 3.5 percent.

- **Residential Waste Managed by City of Winnipeg Programs per Capita (kg)**

	2011	2021	2022	2022 vs 2021	2022 vs 2011
Population	677,800	767,500	783,096	+2%	+15.6%
Garbage	309.4	258.5	249.4	-3.5%	-19.4%
Recycling	67.6	65.5	62.1	-5.2%	-8.1%
Leaf & Yard Waste Compost	13.5	38.8	42.3	9.0%	+212.4%
Total Residential Waste Generated	390.6	370.9	360.5	-2.8%	-7.7%

The following graph illustrates the per capita waste generation rate over the past five years, which increased slightly during the COVID-19 global pandemic (2020) and then decreased in 2022 to below the five-year average of 369 kg per household.



3. Recycling Program (Curbside and Recycling Depots)

The total weight of recyclable materials collected (from curbside residential blue cart collection and from recycling depots) and processed was 48,658 tonnes in 2022, a decrease of 3.3 percent from the 2021 weight of 50,295 tonnes.

On a per capita basis, the weight of recyclable materials collected and processed for 2022 was 62.1 kg per person, a decrease of 5.2 percent from 2021. Specifically, the per capita weight of recyclable material collected at the curb decreased by 5 percent, and the per capita weight collected at depots decreased by 14.2 percent.

Known as the “evolving tonne”, the composition of recyclable materials continues to shift away from heavier and denser material (e.g. glass, metal, and newsprint) to lighter and bulkier material (e.g. plastic, corrugated cardboard). This trend emphasizes the importance of considering per capita waste generation in conjunction with recycling diversion rates (percentages) when evaluating the overall performance of recycling programs.

Year	Tonnes Recyclable Material Processed
2022	48,658
2021	50,295
2020	51,011
2019	50,856
2018	52,553

The five-year average for tonnes of recyclable material processed is 50,675. The 2022 results are 2,017 tonnes or approximately 3.2 percent below this average.

4. Leaf and Yard Waste Collection and Composting

In 2022, 33,133 tonnes of residential leaf and yard waste material was composted, an increase of 3,349 tonnes from 2021, or 11.2 percent. Per capita, there was a 11.9 percent increase for curbside collection and 9.6 percent increase for self-haul over the period. Of note, leaf and yard waste (LYW) collection and composting numbers fluctuate from year to year due to weather conditions and other factors.

Collection and Self-Haul

Over 24,000 tonnes of LYW were collected curbside and over 9,000 tonnes were dropped off at the 4R Winnipeg Depots and the yard waste composting area at the Brady Road Resource Management Facility (BRRMF). An additional 2,560 tonnes of material were delivered from other public sources, including the City’s Retention Pond Weed Harvesting Program.

Composting

The amount of LYW composted every year fluctuates due to weather conditions and other factors. While 2021 was a drought year, resulting in less vegetative growth and thus lower volumes of LYW, 2022 had above-average precipitation resulting in higher volumes of LYW. In 2022, over 33,000 tonnes of LYW waste were composted at the BRRMF, an 11.2 percent increase from 2021.

The finished compost meets the standards established by the *Compost Quality Alliance* and the *Canadian Council of Ministers of the Environment*. Compost is used as top dressing on finished areas of BRRMF and provided to other City departments or sold as surplus goods.

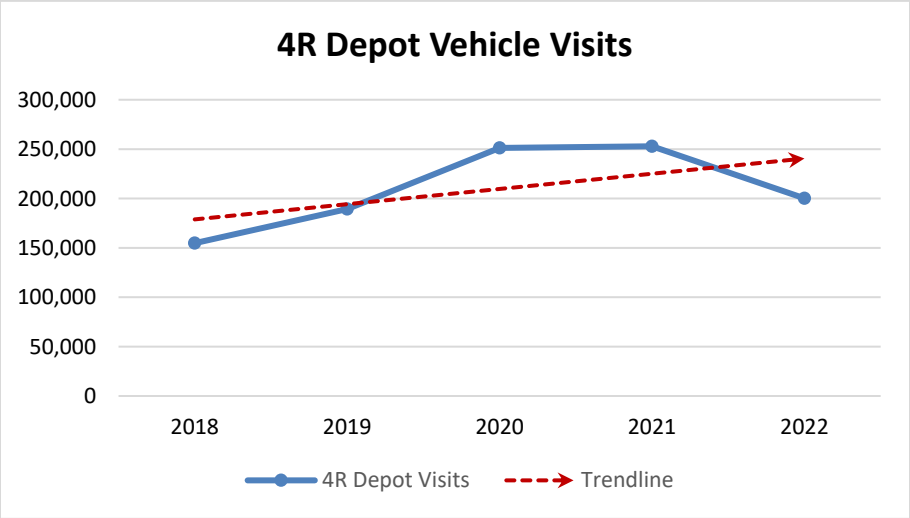
Approximately 8,637 cubic meters of compost were sold in 2022. An additional 1,080 cubic meters of compost was made available for pick-up by Winnipeg residents through a compost giveaway. In 2022, the compost giveaway took place at BRRMF, Kilcona Park, and Summit Landfill from May 13 to 15 to coincide with Compost Awareness Week.

Year	LYW Tonnes Composted
2022	33,133
2021	29,784
2020	36,993
2019	31,630
2018	33,041

Year	LYW Tonnes Composted
2017	28,528
2016	34,123
2015	33,474
2014	29,754
2013	23,223

5. 4R Winnipeg Depots

Just over 200,000 vehicles visited the three 4R depots in 2022, a decrease of 53,000 visits from 2021 (21 percent). Even with this recent decrease, there is a general trend of increased usage over the past five years, as shown in the chart below. The significant spike in visits during 2020 and 2021 is attributed to the COVID-19 pandemic. The chart below illustrates a general trend of increased usage over the past five years. The overall five-year trend can be attributed to a continued focus on customer service and efficiency, as well as targeted promotion and advertising.



Combined, the Brady, Pacific and Panet 4R Winnipeg Depots managed 12,786 tonnes of material, a 13 percent decrease compared to 2021. Of the tonnes managed in 2022, 7,153 were diverted into recycling or composting programs. The remaining 5,633 tonnes consisted of clean fill[1] and concrete/ceramic which were used at BRRMF for daily operations.

- **Tonnes of Material Managed at 4R Winnipeg Depots**

[1] Clean fill typically consists of clay or soil. These are materials that are not originally intended for disposal and therefore not considered diverted material.

Material	2022	2021	Material	2022	2021
Batteries	92	85	Glass	57	40
Bicycles	18	15	Lumber	20	12
Ceramics and Concrete	2,265	2,925	LYW	4,157	3,278
Clean Fill	3,368	4,974	Appliances	199	212
Electronics	611	666	Recyclable Material	94	247
HHW	569	680	Scrap Metal	620	709
Oil	149	140	Tires	259	310
Mattresses	308	408			
			Total	**12,786**	**14,704**

Notable, is the 62 percent decrease of recyclable materials, and 27 percent increase in LYW tonnages.

6. Residential Curbside Garbage Collection and Disposal

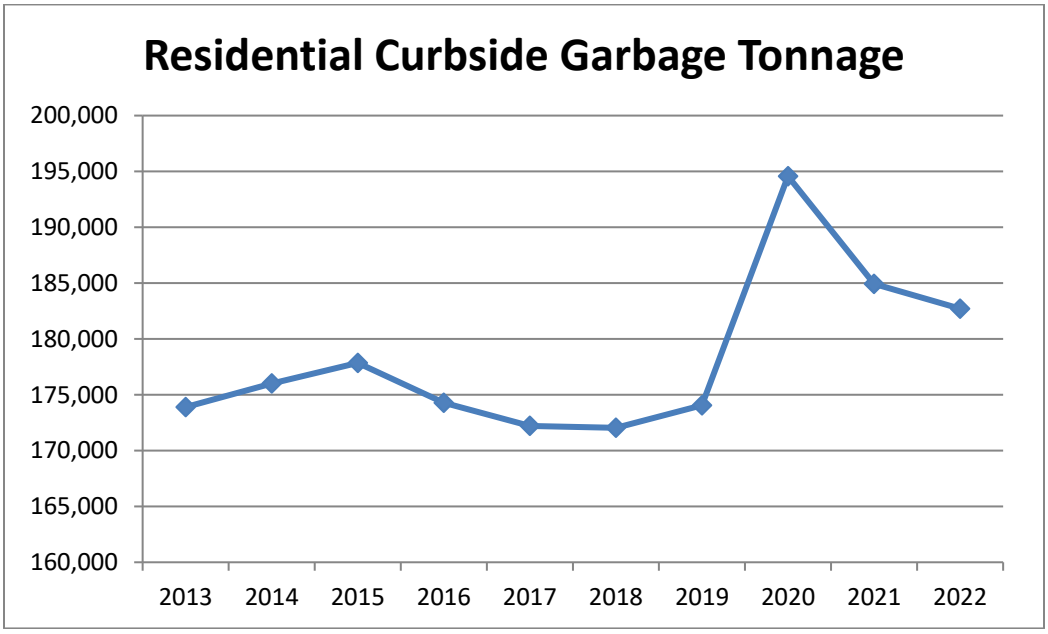
In 2022, the tonnage of residential garbage collected[2] at the curb and landfilled decreased by approximately 1.2 percent or 2,130 tonnes compared to 2021.

Year	Residential Curbside Garbage Tonnage
2022	182,800
2021	184,930
2020	194,570
2019	174,050
2018	172,041
2017	172,209
2016	174,280
2015	177,845
2014	176,011
2013	173,897

As shown in the chart below, this decrease continues a trend of declining garbage tonnages since the high of 194,570 in 2020. The 2022 tonnage is higher than pre-pandemic levels, which

[2] Includes a small amount of waste from municipal facilities and small commercial generators.

averaged at 174,333 tonnes between 2013 and 2019. This can be attributed in part to the sustained impact the COVID-19 pandemic has had on residential garbage generation.



Requests to 311 for Large Item Pickups remained stable with a 0.1 percent increase in 2022 compared to 2021. Reports of Abandoned Waste decreased by 71 percent in 2022 compared to 2021, and the number of residents using the Extra Garbage Pickup service increased by 43 percent.

Requests to 311	2020	2021	2022
Abandoned Waste reports	349	556	159
Large Item pickup[3]	14,587	12,133	12,146
Extra Garbage pickup	306	324	462

7. Curbside Collection Performance

Collection deficiencies increased for garbage, recycling and LYW collection in 2022 compared to 2021, with an overall increase of 87 percent. This increase was due in large part to unfavourable weather conditions experienced during the late winter and spring of 2022, which created large ruts in several back lanes and made it difficult for collections vehicles to access some properties.

Collection	Approximate No. of Locations Collected Weekly	311 Reports of Missed Collection		
		2020	2021	2022
Garbage carts	210,408	6,782	6,433	13,921
Recycling carts	210,408	4,632	4,244	7,120

[3] Includes pickups of bulky waste and appliances with ozone depleting substances

Yard waste (April to November)	105,204	1,775	1,672	2,010
Total		**13,189**	**12,349**	**21,312**

Note: The total number of reports of missed collection may not be a true indication of contractor performance and penalties. For example, upon investigation by either the City or the contractor, a number of complaints registered as missed collection show:

- There was a valid reason why collection did not occur.
- The call should have been recorded as a different type of service request.

8. Residential Food Waste Collection Pilot Project (Source Separated Organics)

Throughout 2022, the residential food waste collection pilot project provided weekly curbside green cart collection to approximately 4,000 households across five pilot areas, with collection service concluding on the final week of September. Public engagement activities in 2022 included: online surveys, information mail-outs, and ongoing customer service via the project email, phone conversations and 311. Other key data gathering activities included: a third scientific waste audit in July 2022, cart inspections in September 2022, and ongoing tracking of collection truck tonnage and tipping data.

9. Landfill Gas Capture/Green House Gas Reduction

In its ninth full year of operation, the landfill gas (LFG) system at the BRRMF captured and flared 11.4 million cubic metres of gas, which resulted in a greenhouse gas (GHG) reduction equivalent of 70,997 tonnes of carbon dioxide. This amount is equivalent to avoiding the annual carbon dioxide emissions of 15,298 passenger cars[4], a 13 percent decrease in carbon dioxide equivalent avoided compared to 2021 (81,353 tonnes). Of note, the volume and makeup of LFG varies each year depending on the type of solid waste disposed as well as other factors.

10. Public Engagement

The Community Liaison Committee for the Brady Road Resource Management Facility was established in 2014 as part of the requirements of the new Environment Act Licence. Two Committee meetings were held in 2022, on June 14 and November 2. Committee members received updates and provided comment on:

- Residential Food Waste Collection Pilot Project;
- Landfill Gas to Energy Beneficial Use Project;
- Landscaping activities on finished areas of the landfill;
- Noise and odour considerations;
- Seagull management;
- Ways to reduce the impact of landfill activities (e.g., construction, operations) on the local environment.

The Waste Diversion Advisory Committee did not meet in 2022.

[4] Based on USA Environmental Protection Agency Greenhouse Gas Equivalencies Calculator

11. Biosolids Soil Fabrication

The 2018-2020 Biosolids Soil Fabrication Pilot Project examined the viability of utilizing biosolids and other residuals generated from City operations, primarily wood waste and street sweepings, to fabricate topsoil to complete the cap system at Summit Landfill. Solid Waste Services submitted an Environment Act licence proposal for an ongoing biosolids soil fabrication program in 2020. The pilot project was given a second year of extension while the application is under review. In 2022, 28,991 tonnes of biosolids were used to make soil as part of this initiative at Summit Landfill. An additional 9,549 tonnes of biosolids were used for soil fabrication at BRRMF. This project, combined with the City's Biosolids Land Application program, helped ensure that all biosolids were diverted from the landfill in 2022.

12. Financial Results

City Council's adoption of the CIWMS included the introduction of the annual Waste Diversion Fee. Effective January 1, 2022, this fee was charged at an annual rate of $67.31 (January 1, 2021 was $66.00) per dwelling unit to residential properties (properties with seven or fewer dwellings as defined by the Solid Waste By-law). These monies are used to fund waste diversion programs.

The total revenue collected in 2022 was $14.1 million, comparable to $13.8 million in 2021.

Operating costs for garbage and recycling collection and processing are stable and any changes are a result of contractual price adjustments.

Operating Cost Highlights

Contract Costs (in Millions)	2022	2021	2020
Garbage Cart Collection	$11.3M	$11.2M	$10.7M
Recycling Cart Collection	$12.2M	$12.3M	$11.8M
Recyclable Material Processing	$7.2M	$7.5M	$7.5M
Leaf and Yard Waste Collection	$3.0M	$2.6M	$3.3M
Leaf and Yard Waste Composting	$0.4M	$0.6M	$0.4M

Processing and Marketing of Recyclable Material

2022 was the third full year of operations for the new materials recovery facility (MRF). A variety of factors including technological, contractual and operational improvements have provided the current MRF with the ability to adapt to fluctuating global recycling markets. Overall, the MRF has significantly enhanced processing and marketing performance; however, with continued transitions in global recycling markets for paper and plastics, enhanced by the changes in supply and demand from the pandemic, revenues decreased to $9.247 million in 2022 compared to $9.735 million in 2021, a 6 percent decrease.

Carts

The Department spent approximately $1.2 million for the purchase of garbage and recycling carts for new housing developments and for the replacement of damaged carts. This amount increased by 109 percent in 2022 compared to 2021 ($716,000) due to a rise in the number of damaged carts and overall higher costs of carts due to supply chain issues and other factors.

Waste Diversion Reserve Fund
As of December 31, 2022, the balance in the Waste Diversion Reserve was $17.331 million. The balance of the Waste Diversion Reserve will be used towards funding waste diversion initiatives. There was a transfer to the reserve in 2022 of $6.7 million as there was a surplus from Recycling and Waste Diversion due to higher commodity pricing.

CAPITAL COSTS

Residential Food Waste Collection Pilot Project (Source Separated Organics)
Request for Proposal (RFP) 607-2019 was awarded in February 2020 to assist with the implementation of a two-year residential food waste collection and public engagement pilot project. Food waste collection continued throughout 2022, providing weekly service to over 4,000 households. Other project activities included public engagement and various forms of data collection to measure participation and satisfaction with the project. The two-year pilot project was completed on time and within budget. The Public Service anticipates it will report to Council on the findings of the study in Q3 of 2023.

Landfill Gas Expansion Project
Work on the LFG and leachate collection system expansion continued with support obtained through the Canada Low Carbon Economy Fund. RFP 194-2020 (Landfill Gas Collection Expansion) was awarded in May 2020 to expand the LFG well field and the conversion to dual-purpose wells for landfill gas and leachate collection. Substantial completion of construction works was achieved in 2022. This project improves the LFG collection efficiency of the system to as high as 75 percent.

Multi-Family Diversion Strategy
RFP 503-2015 was awarded in May 2016 and was put on hold in 2017, as per Council direction, to allow for the completion of CIWMS five-year review. This project resumed in September 2021 and resulted in the development of design guidelines for multi-unit and mixed-use developments, as well as a waste diversion strategy that provides recommendations for increasing the diversion rate within multi-unit properties. This project was completed within budget.

BRRMF Cell Design and Construction
The design of a new waste disposal cell (Cell 34) was initiated.
North Access Road
Construction of a north access road at BRRMF was completed for a cost of $626,000.

13. 2023 Implementation Plan

Green Cart Program
The Public Service will report back to Council on the results of the Residential Food Waste Collection Pilot Project and recommend next steps in the development of the program.

Landfill Gas Beneficial Use - Alternative Energy Project

As per the March 24, 2022, Council direction, the Public Service commenced negotiations with Integrated Gas Recovery Services Inc. (IGRS) to become a raw resource landfill gas supplier on a 20-year term. The Public Service will continue to work with IGRS and consult with other stakeholders to analyze options for the beneficial use of BRRMF landfill gas.

Comprehensive Integrated Waste Management Strategy – Five-Year Review (2023)
A request for proposal for a consulting assignment to review the Comprehensive Integrated Waste Management Strategy will be undertaken. This will include a review of the goals and performance indicators, data collection (i.e. waste audits), and public engagement. It is anticipated that the consulting contract will be awarded in Q2 of 2023 and the project will be completed in approximately 18 months.

Biosolids Soil Fabrication Pilot Project
Year five of the Biosolids Soil Fabrication Pilot Project took place in 2022. An Environment Act licence was submitted to Manitoba Conservation and Climate in 2020 for the implementation of a full-scale program. The licence is under review and a second extension to the pilot project has been granted by the regulator. The continuation of the pilot project will include the all-season fabrication of soil to supplement City topsoil requirements. The soil fabrication process uses city residuals, such as biosolids, street sweepings from winter road operations (sand and grit) and woodchips, to fabricate topsoil. This is then spread and seeded with native prairie species at Summit Landfill. Operations include ongoing environmental monitoring.

BRRMF Cell Design and Construction
Disposal Cell 34 will be designed in 2023, complete with a leachate collection system and associated infrastructure. It will be tendered for construction in 2023 at an estimated cost of $2.4 million.

Food Waste Reduction Project
Year three of a food waste reduction project will be carried out in partnership with the Winnipeg Food Council and Love Food Hate Waste Canada. It will include advisements, promotions and attendance at summer farmer's markets to educate residents on ways to decrease food waste and reduce the amount of food that goes to landfill.

Operational System Improvements
Improvements to data tracking will continue to be made through upgrades to the collections tracking software system.

Communication Strategy

The City will continue to use a multi-pronged approach to communicate its solid waste programs and services, as well as its waste reduction/diversion efforts. Examples of different communication activities include:

- Providing new single-family dwellings with a reusable bag which contains an information package on new collection services, and two sample paper yard waste bags.

- Continued public education through social and traditional media (newspaper, radio ads, community newsletters).

FINANCIAL IMPACT

Financial Impact Statement Date: April 28, 2023

Project Name:

2022 COMPREHENSIVE INTEGRATED WASTE MANAGEMENT STRATEGY (CIWMS) ANNUAL REPORT

COMMENTS:

There is no financial impact based on the recommendations in this report.

Lucy Szkwarek, CPA, CGA

Lucy Szkwarek, CPA, CGA
Manager of Finance and Administration

CONSULTATION

This Report has been prepared in consultation with:

N/A

OURWINNIPEG POLICY ALIGNMENT

This report is in accordance with the OurWinnipeg policies through

OurWinnipeg Goal: Environmental Resilience

Objectives:

- Minimize and divert waste from landfill.

Policies:

2.15 Circular Economy

- Advance Winnipeg's circular economy to support waste reduction.

2.16 Waste Minimization

- Improve and sustain performance of the waste reduction and diversion system.

OurWinnipeg Goal: Social Equity

Objectives:

- Build social cohesion through community development solutions, coordinated, effective partnerships, and responsive service delivery. Learn from community knowledge and leadership, work to be responsive to community needs, and align government processes, resources and services accordingly

Policies:

5.1 Equitable Service Access

- Provide municipal services through an age-friendly lens that promotes equitable access for all, with a focus on the youngest, oldest, and systemically disadvantaged members of the community.

WINNIPEG CLIMATE ACTION PLAN ALIGNMENT

This report is in accordance with Winnipeg's Climate Action Plan through Strategic Opportunity #6 Waste Reduction and Diversion, and supports the following key directions:

6.1 Reduce Consumption and Increase Waste Diversion from Residential, Commercial and

Industry (Primary Responsibility: Water and Waste Department).
6.2 Advance Winnipeg's Circular Economy to Support Waste Reduction (Primary Responsibility: Water and Waste Department)
6.3 Utilize Biosolids In Agriculture and Landscaping Industries (Primary Responsibility: Water and Waste Department)
6.4 Support Integrated Resource Recovery Opportunities (Primary Responsibility: Water and Waste Department)

WINNIPEG POVERTY REDUCTION STRATEGY ALIGNMENT

One of the guiding principles of the Poverty Reduction Strategy is to promote and maintain the welfare of all residents. The effective management of solid waste services, which looks to increase waste diversion and subsequently reduce landfilled waste and harmful emissions, supports the efforts to clean up the environment and to protect the welfare of Winnipeg residents.

Waste management services are provided to all Winnipeggers, in an equitable, inclusive and accessible manner, which reflects Goal 6 of the Winnipeg Poverty Reduction Strategy - All City Services are Equitable, Inclusive and Accessible.

SUBMITTED BY

Department: Water and Waste
Division: Solid Waste Services
Prepared by: Richard Bolton, MNRM; Melissa Bunkowsky, CPA, CGA
Date: May 24, 2023
File No.: G-101