



2023 Balanced Budget Update

2020 – 2023 Multi-Year Budget Water and Waste Department

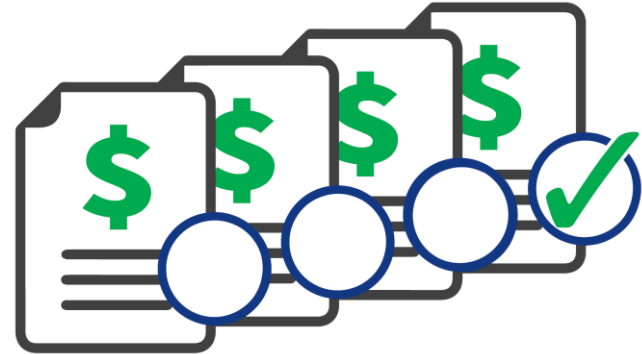


Photo: Kelly Krebs, courtesy Tourism Winnipeg

Standing Policy Committee on Water, Waste, and Environment - March 8, 2023







Agenda

1. Service Description, Goals and Performance Measurement
2. Budget Overview and Highlights
3. Operating Budget:
 - Revenue / Expenditures
 - Changes
 - Salaries and FTEs
 - Reserve Summary
 - Referrals
4. Poverty Reduction Strategy
5. Capital Budget:
 - Summary
 - Projects
 - Changes
 - Referrals – There are no referrals to the Capital Budget
 - Overview of Capital Needs
6. Other Important Information and Questions



What We Do

Services Provided*


Services	Description	OurWinnipeg Goals
Water	Provide a safe and adequate supply of potable water through water supply, storage, treatment, pumping, distribution and metering.	 Environmental Resilience (ER)
Wastewater	Collection, transmission, disposal, treatment and monitoring of wastewater in order to ensure the environmentally appropriate handling of high volume sewage discharge.	 Environmental Resilience (ER)
Land Drainage Flood Control	Provide property owners with storm and flood water control in order to prevent flood damage to property.	 Environmental Resilience (ER)
Solid Waste Collection	Collection of garbage from single-family and multifamily homes.	 Environmental Resilience (ER)
Solid Waste Disposal	Operation and maintenance of the City's active and closed landfills	 Environmental Resilience (ER)
Recycling and Waste Diversion	Weekly collection and sorting of the recyclables and bi-weekly seasonal yard waste collection. Three 4R Winnipeg Depots which provide a one-stop location for recycling materials, divertible materials and the safe disposal of hazardous waste including paints, oil and electronics.	 Environmental Resilience (ER)

* Source: Volume 1, OurWinnipeg, public documents

How We Did

Performance Measurements – Water*

Performance Reporting

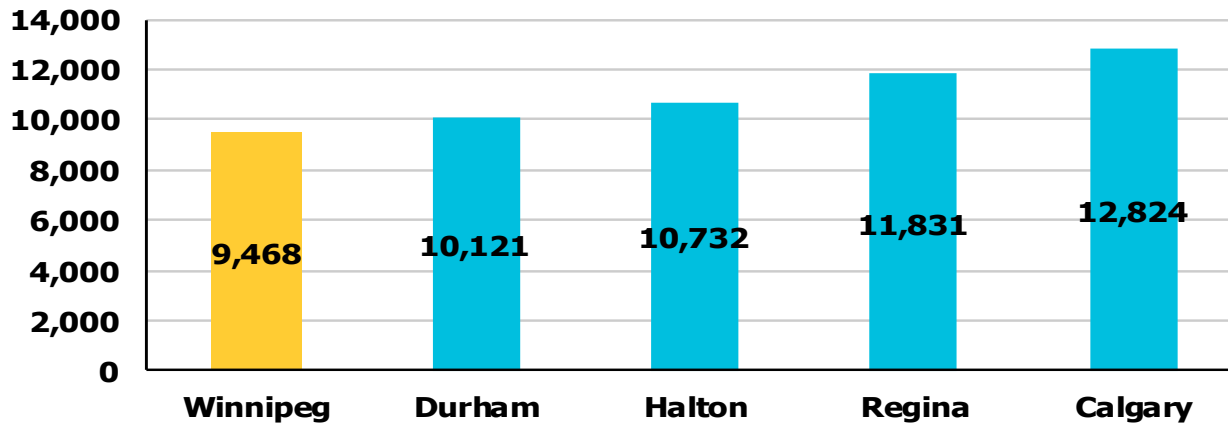
	Service Goal / Measure Description	2020 Actual	2021 Actual	2022 Target	2023 Target
	To provide a safe, reliable and sustainable supply of potable water and fire protection by operating and maintaining the drinking water system in accordance with our Public Water System Operating Licence and the City of Winnipeg Charter.				
	Number of hydrant inspections	45,354	40,161	46,700	47,100
	Number of large valves exercised	97	90	125	150
	Number of complaints - discolored water	652	764	600	550
	Megalitres of treated water per 100,000 population	9,197	9,468	9,657	9,850
	Operating cost for the treatment and distribution/transmission of drinking water per megalitre of drinking water treated	\$772	\$763	\$778	\$794
	Total cost for the distribution/transmission of drinking water per kilometre of water distribution pipe	\$13,800	\$13,721	\$13,995	\$14,275
	Annual residential water bill	\$460	\$476	\$492	\$508

* Source: Volume 1 – Community Trends and Performance Report

How We Did

Performance Measurements – Water

Megaliters of Treated Water per 100,000 Population (2021)




Water use per household is influenced by water conservation measures which include changes to the plumbing code (low flow toilets, shower heads etc.) low water use appliances and increased environmental awareness. Winnipeg's megaliters of treated water per 100,000 population is lower than the average (10,995).

	2017	2018	2019	2020	2021
Wpg. Trend	8,962	9,464	9,363	9,197	9,468

How We Did

Performance Measurements – Wastewater*

Performance Reporting

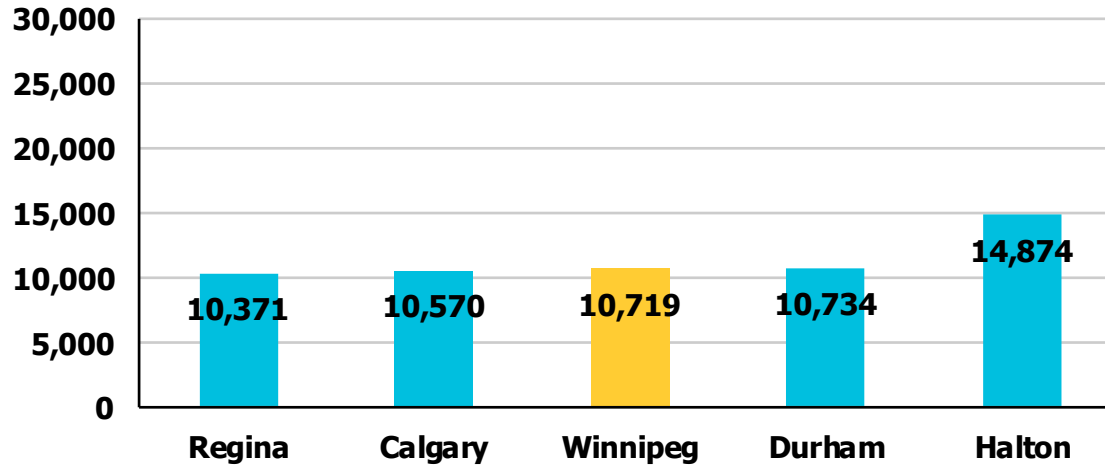
Service Goal / Measure Description	2020 Actual	2021 Actual	2022 Target	2023 Target
 To meet or outperform Environmental Act licence requirements for sewage treatment plants, combined sewer overflows and biosolids				
Number of treatment plant tests conducted	134,404	134,368	138,000	138,000
Number of industrial waste tests conducted	32,330	28,979	30,000	30,000
Megalitres of Treated Wastewater per 100,000 Population	11,166	10,719	10,930	11,150
Operating Cost of Wastewater Treatment/Disposal per Megalitre Treated	\$502	\$578	\$590	\$600
Operating Cost of Wastewater Collection/Conveyance per Kilometre of Pipe	\$11,714	\$11,712	\$11,950	\$12,190
Annual Residential Sewer Bill	\$697	\$717	\$733	\$751

* Source: Volume 1 – Community Trends and Performance Report

How We Did

Performance Measurements – Wastewater

Megalitres of Treated Wastewater per 100,000 Population (2021)




Megalitres treated is impacted by weather related change in flow.

	2017	2018	2019	2020	2021
Wpg. Trend	12,006	10,621	13,076	11,166	10,719

How We Did

Performance Measurements – Land Drainage and Flood Control*

Performance Reporting

Service Goal / Measure Description	2020 Actual	2021 Actual	2022 Target	2023 Target
 Investigate and implement opportunities to improve flood protection measures to minimize potential damage to property and equipment				
Meters of City owned riverbank protected annually	0	1,400	0	850
Citizen satisfaction with protection from river flooding	93%	90%	90%	90%
Number of breaches on properties requiring diking outside primary dike	14	0	N/A	N/A

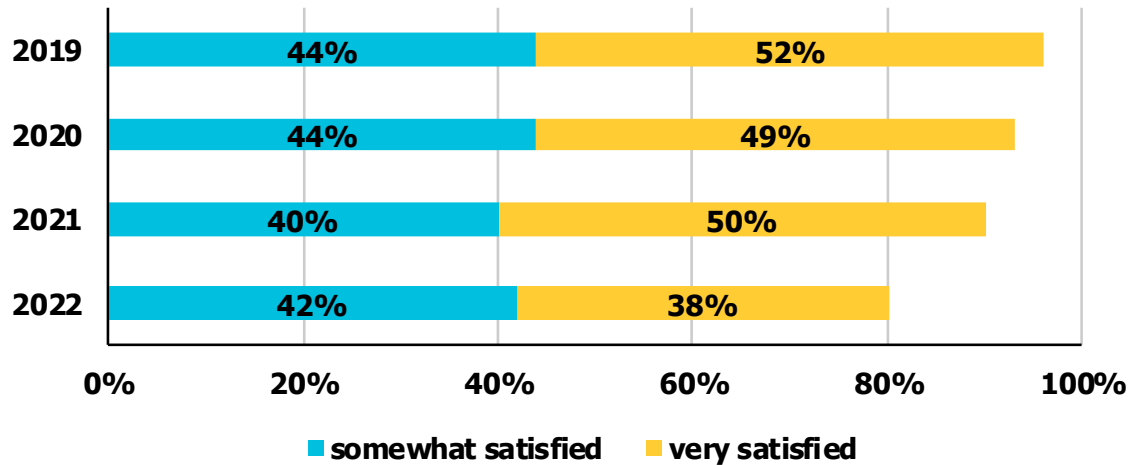
* Source: Volume 1 – Community Trends and Performance Report

How We Did

Performance Measurements – Land Drainage and Flood Control

Effectiveness Measurements

Citizen Satisfaction with Protection from River Flooding




Citizen satisfaction with protection from river flooding remains high. 2022 was a year with higher precipitation levels than prior years.

	2019	2020	2021	2022
Total Satisfied	96%	93%	90%	80%

How We Did

Performance Measurements – Solid Waste Collection*

Performance Reporting

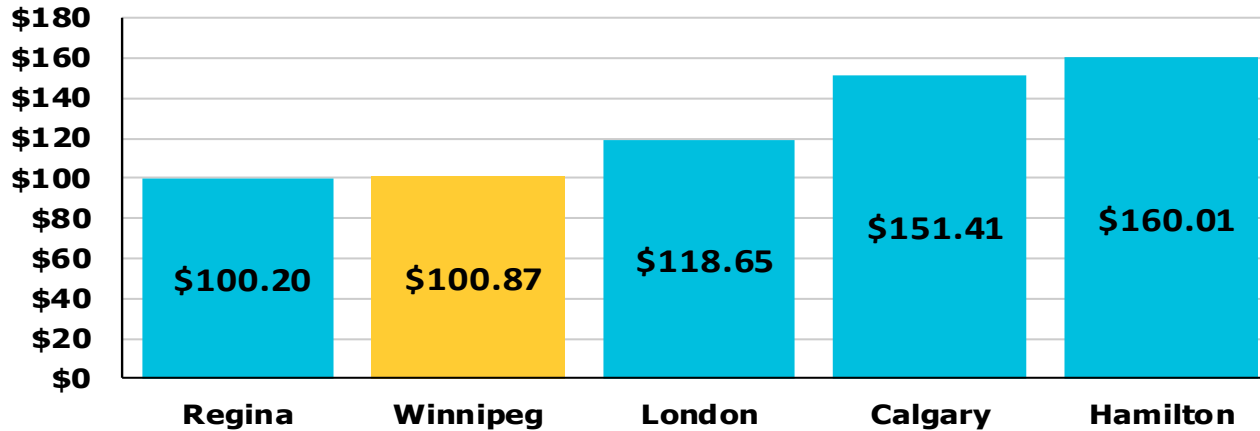
Service Goal / Measure Description	2020 Actual	2021 Actual	2022 Target	2023 Target
 To ensure efficiency of waste collection by maintaining an operating cost per tonne of less than the Municipal Benchmarking Network Canada average				
Operating cost for garbage collection per tonne	\$93.59	\$100.87	\$103.00	\$105.00

* Source: Volume 1 – Community Trends and Performance Report

How We Did

Performance Measurements – Solid Waste Collection

Operating Cost for Garbage Collection per Tonne - All Property Classes (2021)



Winnipeg has the second lowest residential garbage collection costs per tonne of the cities being compared. Winnipeg's cost is lower than the average (\$126.23).

Total costs are for garbage collection from all single and multi-family dwellings and small commercial properties. Total costs do not include cost of disposal.


	2017	2018	2019	2020	2021
Wpg. Trend	\$90.15	\$99.15	\$104.52	\$93.59	\$100.87

Source: Municipal Benchmarking Network Canada (SWST311)

How We Did

Performance Measurements – Solid Waste Disposal*

Performance Reporting

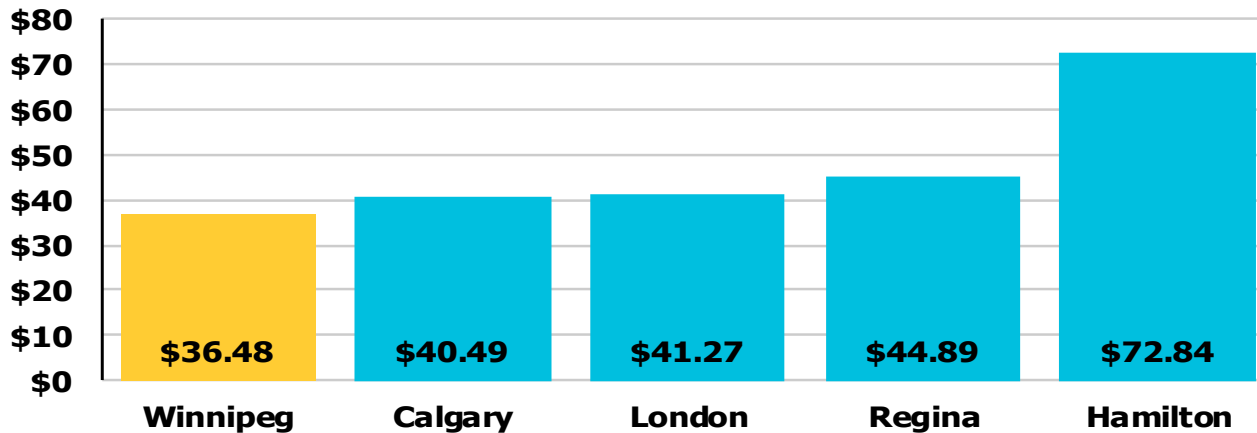
Service Goal / Measure Description	2020 Actual	2021 Actual	2022 Target	2023 Target
 To ensure efficiency of waste disposal by maintaining an operating cost per tonne of less than the Municipal Benchmarking Network Canada average				
Operating cost for solid waste disposal per tonne	\$34.28	\$36.48	\$37.50	\$38.00

* Source: Volume 1 – Community Trends and Performance Report

How We Did

Performance Measurements – Solid Waste Disposal

Operating Cost for Solid Waste Disposal per Tonne - All Property Classes (2021)



This chart shows the total cost per tonne to dispose of all residential, commercial, industrial and other municipality waste. Winnipeg has the lowest operating cost per tonne for solid waste disposal among the cities being compared. Winnipeg's cost is lower than the average (\$47.19).


	2017	2018	2019	2020	2021
Wpg. Trend	\$31.79	\$30.96	\$36.81	\$34.28	\$36.48

Source: Municipal Benchmarking Network Canada (SWST325)

How We Did

Performance Measurements – Recycling and Waste Diversion*

Performance Reporting

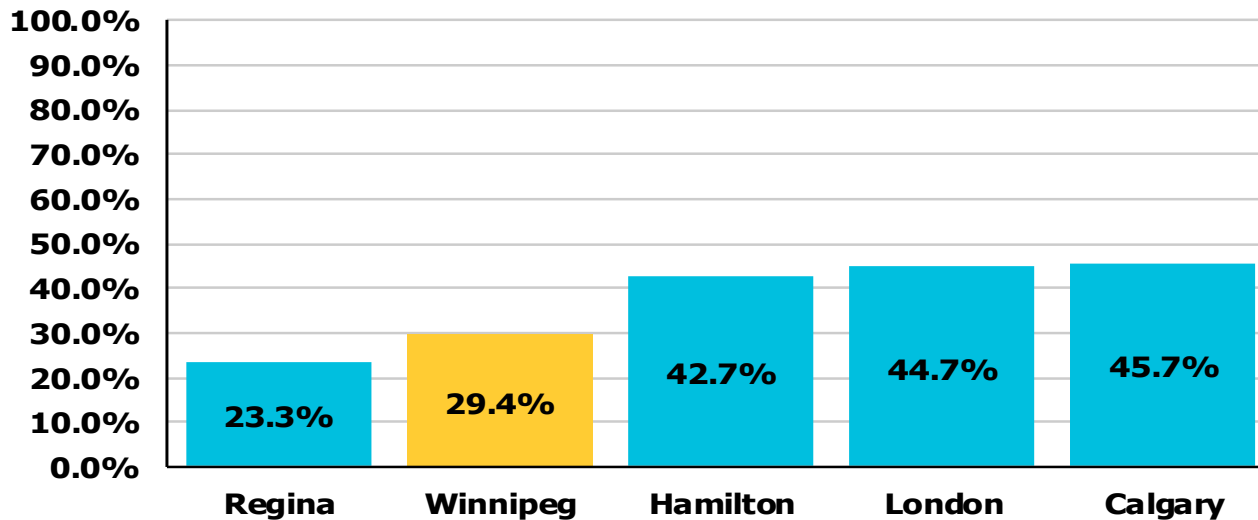
	Service Goal / Measure Description	2020 Actual	2021 Actual	2022 Target	2023 Target
	Advance the circular economy to support waste reduction in Winnipeg				
	Number of dwelling units served	311,384	315,562	321,160	326,770
	Average weight of residential recycling per capita (kg)	66.5	65.5	66.0	66.0
	Total yard waste composted (tonnes)	37,252	30,165	31,575	31,575
	Total material collected at the 4R Winnipeg Depots (tonnes)	16,677	14,704	13,165	13,350
	Percentage of residential solid waste diverted from landfills	30.4%	29.4%	31.0%	31.0%
	Tonnes of residential solid waste diverted per household	0.29	0.27	0.30	0.30

* Source: Volume 1 – Community Trends and Performance Report

How We Did

Performance Measurements – Recycling and Waste Diversion

Percentage of Residential Solid Waste Diverted From Landfills (2021)



Winnipeg has the second lowest percentage of solid waste diverted from landfills among the cities being compared. Solid waste diverted includes residential recycling material and yard waste. Winnipeg's percentage of residential solid waste diverted from landfills is comparable to the average (37.2%).

	2017	2018	2019	2020	2021
Wpg. Trend	32.9%	33.0%	31.9%	30.4%	29.4%

Source: Municipal Benchmarking Network Canada (SWST105)

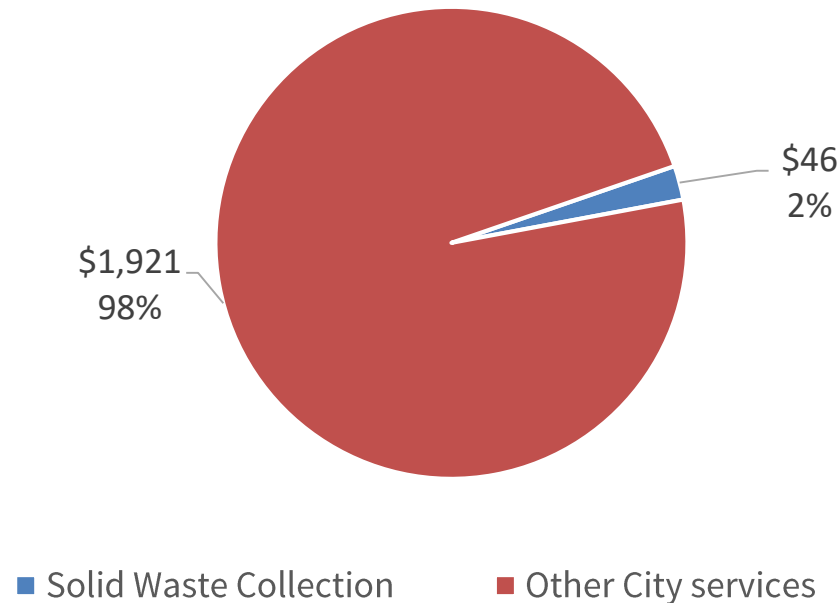
Budget Overview

Budget Overview

(Service Based View)

2023 Average Homeowner's Property Tax Bill \$1,967

Average Property Tax Bill for City Services



Total for solid waste collection services = \$46 per year or 2.3%

Budget Overview

(Service Based View)

Preliminary 2023 Budget Update

Service Based Budget (in millions of \$)	FTEs	% Contribution to Service Based Budget	Operating Budget Surplus/ (Deficit)	Capital Budget	Reserves Net Income ⁴
Water	401	100	2.5	50.5	12.3
Wastewater	418	100	35.4	113.8	(33.7)
Land Drainage and Flood Control ⁽¹⁾	27	89	(0.4)	3.3	-
Solid Waste Collection	12	100	(22.6)	-	-
Solid Waste Disposal	40	100	0.4	3.6	(1.9)
Recycling and Waste Diversion	80	100	(1.6)	1.1	(2.5)
Total	978		13.7	172.2	(25.8)

Notes:

1. Other contributing departments include: Planning, Property and Development (8% - \$0.27M; 3 FTE) and Public Works (3% - \$0.17M; 1 FTE).
2. % of Contribution from Department Budget is based on service based budget expenditures.
3. Does not include COVID financial implications.
4. Reserves net income = revenue less expenditures

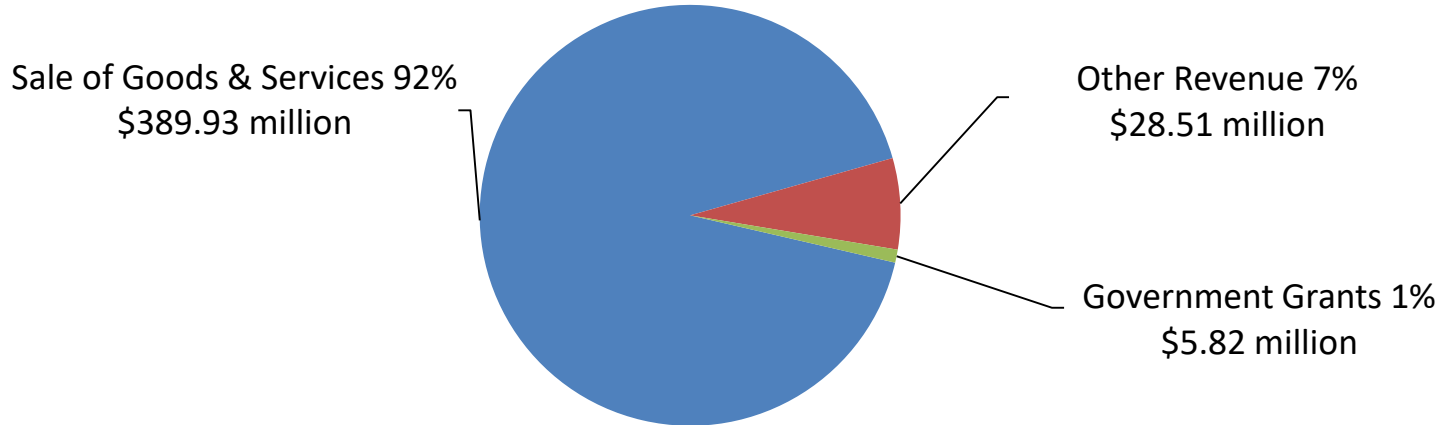
Operating Budget



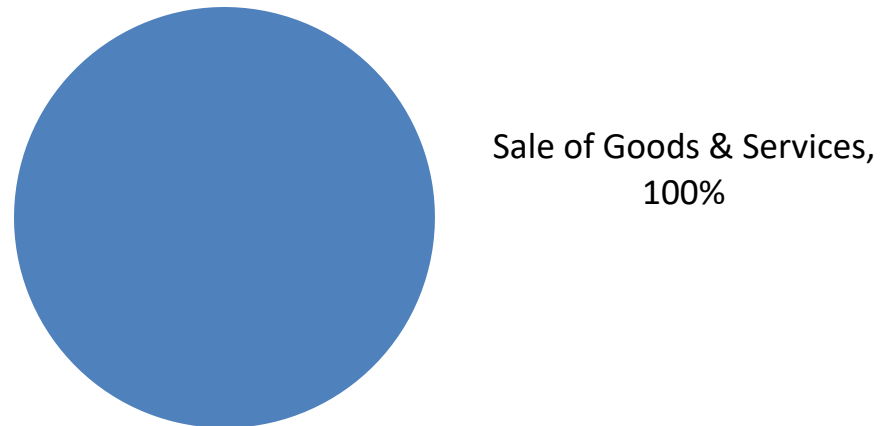
Operating Budget Revenue Overview

(Departmental View)

2023 Preliminary Budget Revenue Total Utilities = \$424.26 million



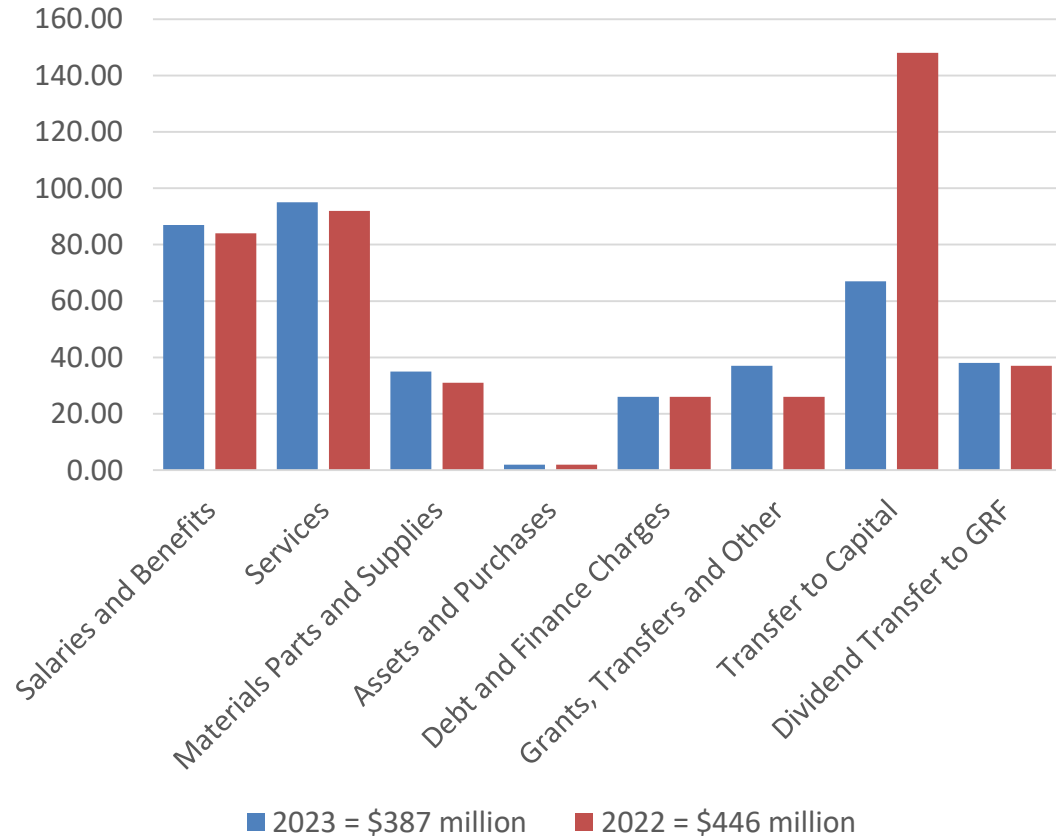
2023 Preliminary Budget Revenue Total Garbage Collection = \$ 1.41 million



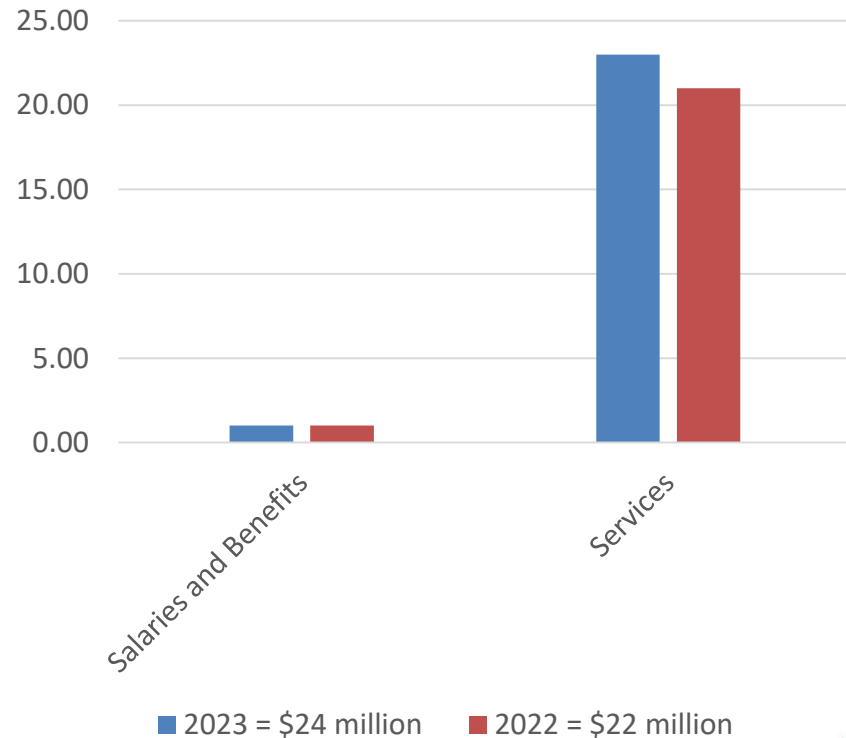
Operating Budget Expenditures Overview

(Departmental View)

Total Utilities Budgeted Expenditures in millions of \$
(including capital related)



Total Garbage Collection Budgeted Expenditures in millions of \$
(including capital related)



Operating Budget Changes – Water and Waste Utilities

Operating Budget (In millions of \$)	MYB Criteria	2023 Budget
Surplus/(Deficit) - Council Approved 2023 Projection from 2022		51.6
Budget Process (a)		
<i>Increase (Decrease) From Forecast*:</i>		
<i>Revenue:</i>		
Increase in commercial tipping fees	REV/COST	1.0
Increase in waste diversion fees	REV/COST	0.3
Miscellaneous adjustments	HOUSEKEEP	0.1
Revenue Net Change (b)		1.4
<i>Expenditures:</i>		
Increase in transfer to Financial Stabilization Reserve	INCRE	15.0
Increase in chemicals	REV/COST	2.6
Increase in cut restoration costs	REV/COST	1.5
Increase in salaries and benefits	LEGISLATED	0.8
Increase in fuel	REV/COST	0.6
Increase in hauling	REV/COST	0.5
Increase in transfer to General Revenue Fund for internal tipping fees	INCRE	0.3
Decrease in transfer to Water Main Renewal Reserve	INCRE	(3.5)
Decrease in non professional services	REV/COST	(0.8)
Decrease in debt and finance	REV/COST	(0.5)
Miscellaneous adjustments	HOUSEKEEP	(0.3)
Expenditures Net Change (c)		16.2
Surplus/(Deficit) - Preliminary Budget (a-b+c)		36.8
* Includes housekeeping or fine tuning adjustments.		

Operating Budget Changes – Garbage Collection

Operating Budget (In millions of \$)	MYB Criteria	2023 Budget
Mill Rate Support - Council Approved 2023 Projection from 2022 Budget Process (a)		22.8
<i>Increase (Decrease) From Forecast*:</i>		
<i>Revenue:</i>		
Increase in garbage cart billing revenue due to refinement of cart services	REV/COST	0.2
Revenue Net Change (b)		0.2
<i>Expenditures:</i>		
Expenditures Net Change (c)		-
Mill Rate Support - Preliminary Budget (a-b+c)		22.6
* Includes housekeeping or fine tuning adjustments.		

Salary Budget and Full Time Equivalents (FTEs) / Vacancy Management

	2020 Adopted Budget	2021 Adopted Budget	2022 Adopted Budget	2023 Preliminary Budget	Increase / (Decrease) vs. 2022
Full Time Equivalents <i>(number of FTEs)</i>	977.63	973.96	972.63	973.88	1.25
Salaries & Benefits <i>(in millions of \$)</i>	\$ 82.5	\$ 83.3	\$ 84.9	\$ 87.7	\$ 2.8
Vacancy Management included in Salaries & Benefits <i>(in millions of \$)</i>	\$ (4.272)	\$ (4.472)	\$ (4.541)	\$ (4.655)	\$ (0.114)

Notes:

1. 2019 FTEs total = 977.28
2. 2023 FTEs increased by 1.25 in comparison to 2022 due to the annualization of an FTE that was budgeted to start mid-year 2022, and the addition of one Sustainability Planner to support the Climate Action and Resilience Committee.
3. 1 FTE is approximately equivalent to \$71,235 for vacancy management in the 2023 preliminary budget.
4. 10 temporary FTEs in the capital budget not included in operating budget = \$1,193,000

Reserve Summary

(Service Based View)

<u>Reserve Name</u>	2023				
	Beginning Balance	Revenue	Expense	Net (Revenue less Expenses)	Forecasted Ending Balance
1 Landfill Rehabilitation	4,272	394	2,339	(1,945)	2,327
2 Climate Action Reserve	-	665	665	-	-
3 Water Main Renewal Reserve	13,482	16,035	17,861	(1,826)	11,656
4 Water Meter Renewal Reserve	23,301	14,179	84	14,095	37,396
5 Sewer System Rehabilitation Reserve	4,416	17,007	19,764	(2,757)	1,659
6 Environmental Projects Reserve	181,671	20,689	51,650	(30,961)	150,710
7 Waste Diversion Reserve	10,390	50	2,550	(2,500)	7,890
Total Reserves	237,532	69,019	94,913	(25,894)	211,638

Operating Budget Referrals

Referral Description	SPC/Council and Date	Included in Budget Y/N	2023		2024		2025		2026	
			FTE	\$	FTE	\$	FTE	\$	FTE	\$
Community Energy Investment Roadmap to Reach Net Zero Emissions by 2050	Council (July 21, 2022)	N	2.00	229,793	2.00	237,138	2.00	240,646	2.00	245,043
Creation of Climate Action and Resilience Committee	Council (September 22, 2022)	Y	0.75	120,694	1.00	146,614	1.00	149,029	1.00	151,505
Total			2.75	350,487	3.00	383,752	3.00	389,675	3.00	396,548

Alignment to the Poverty Reduction Strategy

- In response to the Council approved strategy, Water and Waste Department has identified work and corresponding budget within the strategy
- 2023 Budget aligned to the strategy:
 - \$0.185 million or .04% of Total Departmental Operating Expenditures

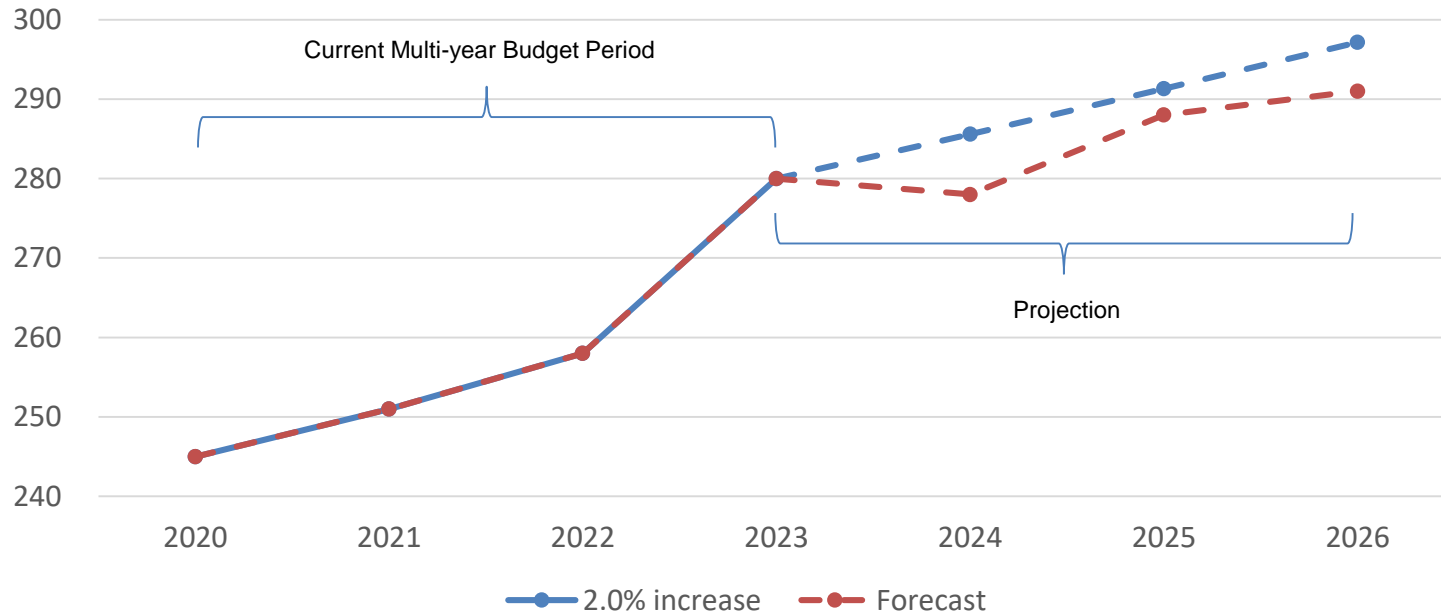
Community Well-being Supports for those
in Greatest Need are Increased



Budget Outlook

2024 to 2026 Expenditure Projections

Operating Budget Forecast Compared to EPC Target in the 2020 to 2023 Multi-Year Budget
In millions of \$



2024 to 2026 forecast is based on maintaining service levels consistent with the 2020-2023 multi-year approved budget, while continuing to explore cost saving options.

Capital Budget



Capital Summary – By Service

Service (\$000's)	2022 Adopted Budget	2023 Preliminary	2024 - 2028 Forecast	6-year Total
Land Drainage Utility Fund	9,112	3,315	26,385	29,700
Waterworks System Fund	33,715	50,500	289,935	340,435
Sewage Disposal System Fund	77,820	113,755	506,525	620,280
Solid Waste Disposal Fund	6,170	4,650	16,530	21,180
Total Capital Submission	126,817	172,220	839,375	1,011,595

Key Projects in the Funded Capital Submission

Land Drainage Utility Fund



Outfall Rehabilitation

Program to assess and rehabilitate sewer outfalls, repair piping and related appurtenances and improve riverbank stability issues.

Budget Year(s): 2023-2028
Amount: \$11.20 million



Stormwater Retention Basin Upgrades

Program to replace aging and deteriorated infrastructure and to develop design standards for Naturalized Stormwater Retention Basins.

Budget Year(s): 2023, 2024, 2027
Amount: \$1.50 million

Flood Pumping Station Rehabilitation

Program to assess and rehabilitate regional flood pumping stations.

Budget Year(s): 2023-2028
Amount: \$9.00 million



Primary Line of Defense Condition Assessment

Risk assessment of the primary diking system within the primary line of defense.

Budget Year(s): 2024
Amount: \$0.75 million



Land Drainage and Combined Sewer Outfall Gate Structures

Program to rehabilitate existing gate chambers to meet the level of service, ensuring all systems are protected from river water intrusion.

Budget Year(s): 2024-2025
Amount: \$5.15million



Development Agreement Paybacks

Allowance to repay developers for installation of oversized infrastructure.

Budget Year(s): 2023, 2025
Amount: \$1.60 million

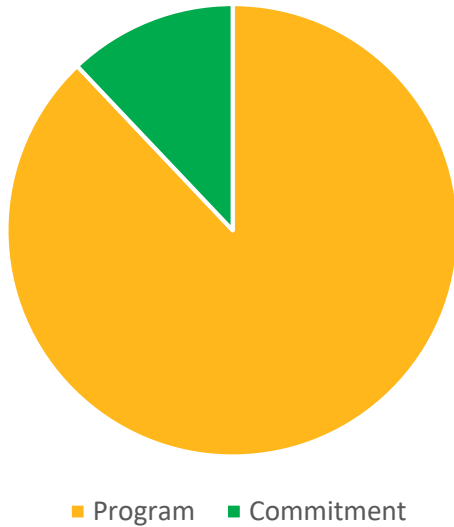
Listing of Capital Projects – Land Drainage Utility Fund

Project Name	2023 Preliminary Budget	2024 - 2028 Forecast	6-Year Total
Flood Pumping Station Rehabilitation	\$ 1,500	\$ 7,500	\$ 9,000
Land Drainage Sewers - Regional / Local Streets	\$ -	\$ 500	\$ 500
Stormwater Retention Basin Upgrades	\$ 415	\$ 1,085	\$ 1,500
Outfall Rehabilitation	\$ 1,000	\$ 10,200	\$ 11,200
Land Drainage and Combined Sewers Outfall Gate Structures	\$ -	\$ 5,150	\$ 5,150
Development Agreement Paybacks	\$ 400	\$ 1,200	\$ 1,600
Primary Line of Defense Condition Assessment	\$ -	\$ 750	\$ 750
Total Preliminary Budget	\$ 3,315	\$ 26,385	\$ 29,700

2023 Capital Projects – Additional Details

Land Drainage Utility Fund

2023 Budget Composition



The 2023 Draft Submission includes 88% programs, and 12% other commitments. There are no projects in 2023.

For all programs, the Class 3 cost estimates for individual projects within the program will be obtained through preliminary engineering prior to construction.

Capital Budget Changes – Land Drainage Utility Fund

Projects (\$000's)	MYB Criteria	2023 Preliminary	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2023 to 2027 Total	2028 Forecast	6-year Total
Council Approved Forecast		3,500	5,485	4,300	3,100	5,900	22,285	-	22,285
Increase / (Decrease) From Forecast:									
Flood Pumping Station Rehabilitation	REV/COST	500	500	500	500	500	2,500	1,500	4,000
Land Drainage Sewers - Regional / Local Streets		-	-	-	-	-	-	100	100
Stormwater Retention Basin Upgrades	REV/COST	415	-	-	-	-	415	-	415
Outfall Rehabilitation	REV/COST	(1,500)	(1,000)	-	-	-	(2,500)	2,000	(500)
Land Drainage and Combined Sewers									
Outfall Gate Chambers	REV/COST	-	250	3,000	-	-	3,250	-	3,250
Development Agreement Paybacks	REV/COST	400	-	-	-	(1,000)	(600)	-	(600)
Primary Line of Defense Condition Assessment	REV/COST	-	750	-	-	-	750	-	750
Total Changes		(185)	500	3,500	500	(500)	3,815	3,600	7,415
PRELIMINARY CAPITAL BUDGET		3,315	5,985	7,800	3,600	5,400	26,100	3,600	29,700

Variance from Forecast:

Flood Pumping Station Rehabilitation increased to address historical spending rate and current market conditions.

Stormwater Retention Basin Upgrades includes rebudget of \$100,000 into 2023.

Key Projects in the Funded Capital Submission

Waterworks System Fund



Water Treatment Plant Programmable Logic Controllers Upgrade

Replacement of PLCs at the Winnipeg Drinking Water Treatment Plant.

Budget Year(s): 2023, 2024
Amount: \$5.88 million



Feeder Main Condition Assessment and Rehabilitation

Program to assess and rehabilitate feeder mains and associated assets.

Budget Year(s): 2023,-2026, 2028
Amount: \$7.30 million

Shoal Lake Aqueduct Intake Facility Rehabilitation

Program to replace and refurbish various components of the Shoal Lake Aqueduct Intake Facility.

Budget Year(s): 2024-2027
Amount: \$6.10 million



Water Main Renewals

Program replace and/or rehabilitate water infrastructure that is not meeting our level of service.

Budget Year(s): 2023-2028
Amount: \$120.75 million



Water Treatment Plant Asset Refurbishment and Replacement

Program to refurbish and replace identified assets at the Winnipeg Drinking Water Treatment Plant.

Budget Year(s):
2023, 2024, 2027, 2028
Amount: \$24.65 million



Branch Aqueduct Condition Assessment and Rehabilitation

Program for assessment and rehabilitation of Branch I, II and Branch Interconnection Aqueducts.

Budget Year(s):
2023, 2025-2027
Amount: \$14.70 million

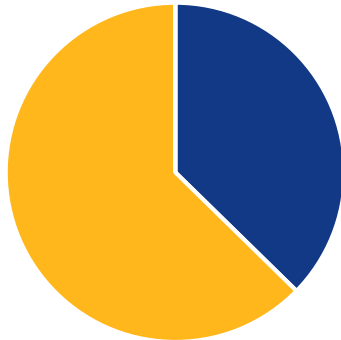
Listing of Capital Projects – Waterworks System Fund

Project Name	2023 Preliminary Budget	2024 - 2028 Forecast	6-Year Total
Shoal Lake Aqueduct Condition Assessment and Rehabilitation	\$ 1,500	\$ 8,800	\$ 10,300
Shoal Lake Aqueduct Intake Facility Rehabilitation	\$ -	\$ 6,100	\$ 6,100
Branch Aqueduct Condition Assessment and Rehabilitation	\$ 5,700	\$ 9,000	\$ 14,700
Tache Booster Pumping Station	\$ 1,100	\$ -	\$ 1,100
Chlorination Upgrading at Pumping Stations	\$ 4,800	\$ -	\$ 4,800
Regulatory Assessment of Water System Infrastructure and Supply Sources	\$ -	\$ 250	\$ 250
Deacon Reservoir Cell Rehabilitation	\$ -	\$ 100	\$ 100
Discharge Meter Upgrades at the In-town Pumping Stations	\$ 550	\$ 2,150	\$ 2,700
Water Treatment Plant Programmable Logic Controllers Upgrade	\$ 2,000	\$ 3,880	\$ 5,880
Water Treatment Plant Asset Refurbishment and Replacement Program	\$ 2,200	\$ 22,450	\$ 24,650
Greater Winnipeg Water District Railway Capital Upgrades	\$ -	\$ 3,300	\$ 3,300
Water Supply, Treatment, and Distribution Electrical Upgrades	\$ -	\$ 1,750	\$ 1,750
Ultraviolet Light Disinfection Upgrade/Rehabilitation	\$ 400	\$ -	\$ 400
HVAC Upgrades at Pumping Stations	\$ 450	\$ 1,850	\$ 2,300
CentrePort South (formerly Airport Area West) Water and Sewer Servicing	\$ 10,000	\$ -	\$ 10,000
Feeder Main Condition Assessment and Rehabilitation	\$ 300	\$ 7,000	\$ 7,300
Water Meter Renewals	\$ -	\$ 113,000	\$ 113,000
Water Main Renewals	\$ 18,000	\$ 102,750	\$ 120,750
Customer Billing and Work Management Systems Upgrades Program	\$ 2,050	\$ 3,755	\$ 5,805
Application and Data Integration	\$ 250	\$ 1,800	\$ 2,050
Digital Enablement (formerly Digital Enablement for Plant and Field Employees)	\$ 1,200	\$ 2,000	\$ 3,200
Total Preliminary Budget	\$ 50,500	\$ 289,935	\$ 340,435

2023 Capital Projects – Additional Details

Waterworks System Fund

2023 Budget Composition



■ Project ■ Program

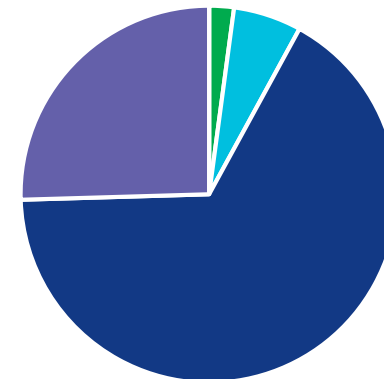
The 2023 Preliminary Budget includes 37% projects and 63% programs.

All projects in 2023 have been evaluated as Class 1 through 4 estimates. 25% of project funding is at a Class 4 estimate (1 project), while the remainder are at a Class 3 estimate or better.

The Class 4 estimate is for Chlorination Upgrading at Pumping Stations. This estimate will be refined to Class 3 during the first phase of detailed design, taking place in 2023.

For all programs, the Class 3 cost estimates for individual projects within the program will be obtained through preliminary engineering prior to construction.

2023 Project Class Estimate



■ Class 1 ■ Class 2 ■ Class 3 ■ Class 4

Capital Budget Changes – Waterworks System Fund

Projects (\$000's)	MYB Criteria	2023 Preliminary	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2023 to 2027 Total	2028 Forecast	6-year Total
Council Approved Forecast		35,900	37,565	48,515	53,820	79,100	254,900	-	254,900
Increase / (Decrease) From Forecast:									
Shoal Lake Aqueduct Condition Assessment and Rehabilitation	HOUSEKEEP	1,000	-	-	-	-	1,000	1,400	2,400
Water Treatment Plant Programmable Logic Controllers	REV/COST	2,000	3,880	-	(550)	(4,450)	880	-	880
Water Treatment Plant Asset Refurbishment and Replacement Program	REV/COST	2,200	800	(900)	-	(6,000)	(3,900)	11,350	7,450
Greater Winnipeg Water District (GWWD) Railway Capital Upgrades	REV/COST	-	150	850	-	300	1,300	2,000	3,300
Water Supply, Treatment, and Distribution Electrical Upgrades	REV/COST	-	150	-	-	1,600	1,750	-	1,750
CentrePort South Water and Sewer Servicing	REV/COST	10,000	-	-	-	-	10,000	-	10,000
Feeder Main Condition Assessment and Rehabilitation	REV/COST	(3,000)	800	1,200	-	-	(1,000)	250	(750)
Water Meter Renewals	REV/COST	-	-	-	-	-	-	36,000	36,000
Water Main Renewals	REV/COST	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(5,000)	22,750	17,750
Customer Billing and Work Management Systems Upgrades Program	HOUSEKEEP	1,500	-	300	(300)	175	1,675	180	1,855
Digital Enablement	HOUSEKEEP	450	750	-	-	-	1,200	-	1,200
Various Projects	REV/COST	1,450	400	-	-	-	1,850	1,850	3,700
Total Changes		14,600	5,930	450	(1,850)	(9,375)	9,755	75,780	85,535
PRELIMINARY CAPITAL BUDGET		50,500	43,495	48,965	51,970	69,725	264,655	75,780	340,435

Variance from Forecast:

Shoal Lake Aqueduct Condition Assessment and Rehabilitation includes rebudget of \$1,000,000 into 2023

Customer Billing and Work Management Systems Upgrades Program includes rebudget of \$1,500,000 into 2023

CentrePort South Water and Sewer Servicing is financed by the Province of Manitoba. Funding will be over and above the Strategic Infrastructure Basket Funding.

Key Projects in the Funded Capital Submission

Sewage Disposal System Fund



Asset Refurbishment and Replacement Program

Program to refurbish and replace assets at the City's three sewage treatment plants.

Budget Year(s): 2023-2028
Amount: \$38.50 million



Southwest Interceptor

Provision of additional river crossing of the Red River.

Budget Year(s): 2023-2027
Amount: \$95.00 million

NEWPCC Upgrade: Nutrient Removal Facilities

Project to address regulatory requirements and address end of life equipment.

Budget Year(s): 2023
Amount: \$15.00 million



Lift Stations Upgrading

Program for condition assessment and rehabilitation of 75 lift stations.

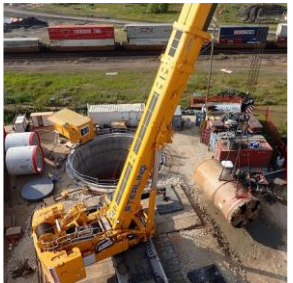
Budget Year(s): 2023- 2028
Amount: \$38.75 million



Combined Sewer Overflow and Basement Flood Management Strategy

Program to complete projects identified in CSO Master Plan, to meet licence requirements.

Budget Year(s): 2023-2028
Amount: \$240.00 million



Sewer Renewals

Program to assess, replace or rehabilitate combined, wastewater and land drainage infrastructure.

Budget Year(s): 2023-2028
Amount: \$123.50 million

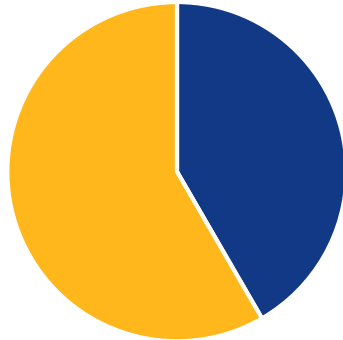
Listing of Capital Projects – Sewage Disposal System Fund

Project Name	2023 Preliminary Budget	2024 - 2028 Forecast	6-Year Total
Sludge Drying Beds Decommissioning	\$ -	\$ 375	\$ 375
Process Control System Master Plan and Upgrade	\$ 750	\$ 14,250	\$ 15,000
Asset Refurbishment and Replacement Program	\$ 7,000	\$ 31,500	\$ 38,500
NEWPCC Upgrade: Nutrient Removal Facilities	\$ 15,000	\$ -	\$ 15,000
Arc Flash Hazard Analysis and Remediation	\$ 800	\$ 150	\$ 950
Lift Stations Upgrading	\$ 6,250	\$ 32,500	\$ 38,750
River Crossings Monitoring and Rehabilitation	\$ 730	\$ -	\$ 730
Combined Sewer Overflow and Basement Flood Management Strategy	\$ 28,000	\$ 212,000	\$ 240,000
Southwest Interceptor	\$ 1,000	\$ 94,000	\$ 95,000
Environmental Standards Laboratory Facility Plan	\$ -	\$ 560	\$ 560
Supervisory Control and Data Acquisition (SCADA) Upgrades for Collection System	\$ -	\$ 1,350	\$ 1,350
D'Arcy Lift Station Load Shedding Upgrade	\$ 575	\$ -	\$ 575
Vacuum Truck Decanting Facility	\$ 200	\$ 1,300	\$ 1,500
CentrePort South (formerly Airport Area West) Water and Sewer Servicing	\$ 30,000	\$ -	\$ 30,000
Sewer Renewals	\$ 18,500	\$ 105,000	\$ 123,500
Water and Waste Department Business Intelligence	\$ 1,800	\$ 4,640	\$ 6,440
Customer Billing and Work Management Systems Upgrades Program	\$ 2,050	\$ 3,755	\$ 5,805
Digital Customer Solutions	\$ 500	\$ 2,080	\$ 2,580
Water and Waste Department Learning Management System	\$ -	\$ 565	\$ 565
Supervisory Control and Data Acquisition (SCADA) Security and Integration Improvements	\$ 600	\$ 2,500	\$ 3,100
Total Preliminary Budget	\$ 113,755	\$ 506,525	\$ 620,280

2023 Capital Projects – Additional Details

Sewage Disposal System Fund

2023 Budget Composition



■ Project ■ Program

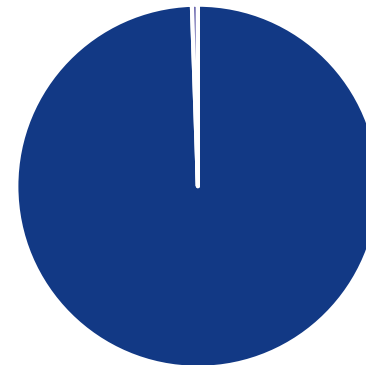
The 2023 Budget includes 58% program and 42% project funding.

All projects in 2023 have been evaluated as Class 3 and 4 estimates. 99% of project funding is at a Class 3 estimate.

There is one Class 4 estimate for SCADA Security and Integration Improvements preliminary design. This estimate will be refined to a Class 3 estimate upon completion of a feasibility study, taking place in 2023.

For all programs, the Class 3 cost estimates for individual projects within the program will be obtained through preliminary engineering prior to construction.

2023 Project Class Estimate



■ Class 3 ■ Class 4

Capital Budget Changes - Sewage Disposal System Fund

Projects (\$000's)	MYB Criteria	2023 Preliminary	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2023 to 2027 Total	2028 Forecast	6-year Total
Council Approved Forecast		60,480	88,685	114,365	112,300	114,500	490,330	-	490,330
Increase / (Decrease) From Forecast:									
Process Control System Master Plan and Upgrade	REV/COST	750	-	250	1,500	-	2,500	-	2,500
Asset Refurbishment and Replacement Program	REV/COST	2,000	1,500	2,500	500	500	7,000	6,500	13,500
NEWPCC Upgrade: Nutrient Removal Facilities	LEG	15,000	-	-	-	-	15,000	-	15,000
Lift Stations Upgrading		-	-	-	-	-	-	7,000	7,000
CSO and Basement Flood Management Strategy		-	-	-	-	-	-	30,000	30,000
Southwest Interceptor	HOUSEKEEP	1,000	(1,000)	-	-	-	-	-	-
CentrePort South Water and Sewer Servicing	REV/COST	30,000	-	-	-	-	30,000	-	30,000
Sewer Renewals		-	-	-	-	-	-	21,000	21,000
WWD Business Intelligence	REV/COST	1,500	(300)	350	(470)	980	2,060	980	3,040
Customer Billing and Work Management									
Systems Upgrades Program	HOUSEKEEP	1,500	-	300	(300)	175	1,675	180	1,855
SCADA Security and Integration Improvements	REV/COST	600	1,200	1,300	-	-	3,100	-	3,100
Various Projects	REV/COST	925	220	-	560	-	1,705	1,250	2,955
Total Changes		53,275	1,620	4,700	1,790	1,655	63,040	66,910	129,950
PRELIMINARY CAPITAL BUDGET		113,755	90,305	119,065	114,090	116,155	553,370	66,910	620,280

Variance from Forecast:

Process Control System Master Plan and Upgrade includes rebudget of \$750,000 into 2023

Water and Waste Department Business Intelligence includes rebudget of \$1,500,000 into 2023

CentrePort South Water and Sewer Servicing is financed by Province of Manitoba Strategic Infrastructure Funding and Federal or Provincial Government Funding

Key Projects in the Funded Capital Submission

Solid Waste Disposal Fund



Brady Road Resource Management Facility - Cell Construction

Program for design, excavation, liners, leachate collection and associated management of landfill cells.

Budget Year(s): 2023, 2024-2028
Amount: \$7.60 million



Soil Fabrication for Landfill Cover

Program for all-season fabrication of soil to supplement topsoil requirements at City landfills.

Budget Year(s): 2023-2028
Amount: \$7.85 million

Brady Road Resource Management Facility - Landfill Gas Capture Expansion

Program for collection and destruction of methane gas generated by the landfill, as per licence requirements.

Budget Year(s): 2024, 2027, 2028
Amount: \$3.40 million



Winnipeg Climate Action Plan and Policy Updates

Project to update the Winnipeg Climate Action Plan to align with OurWinnipeg 2045.

Budget Year(s): 2023, 2028
Amount: \$0.66 million



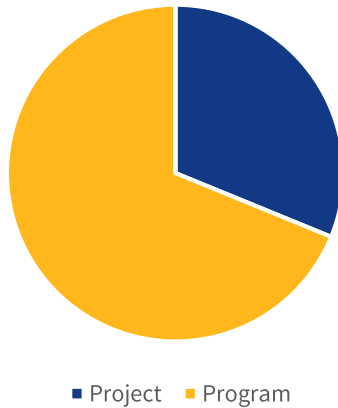
Listing of Capital Projects – Solid Waste Disposal Fund

Project Name	2023 Preliminary Budget	2024 - 2028 Forecast	6-Year Total
Brady Road Resource Management Facility - Cell Construction	\$ 1,800	\$ 5,800	\$ 7,600
Closed Landfill Site Improvement	\$ 100	\$ -	\$ 100
Soil Fabrication for Landfill Cover	\$ 1,300	\$ 6,550	\$ 7,850
Brady Road Resource Management Facility - Landfill Gas Capture Expansion	\$ -	\$ 3,400	\$ 3,400
Comprehensive Integrated Waste Management Strategy (CIWMS) - Review	\$ 390	\$ 450	\$ 840
Winnipeg Climate Action Plan and Policy Updates	\$ 330	\$ 330	\$ 660
Data Collection Enhancement for Winnipeg Climate Action Plan	\$ 330	\$ -	\$ 330
Collections Management System	\$ 400	\$ -	\$ 400
Total Preliminary Budget	\$ 4,650	\$ 16,530	\$ 21,180

2023 Capital Projects – Additional Details

Solid Waste Disposal Fund

2023 Budget Composition

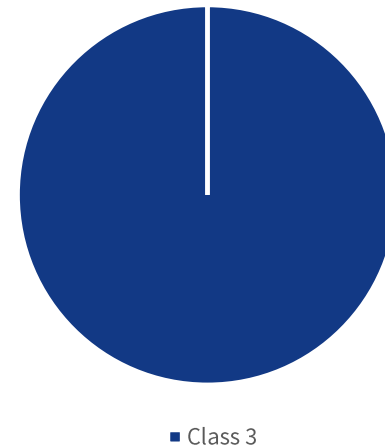


The 2023 Draft Submission includes 69% program and 31% project funding.

2023 Project Class Estimate

All project funding in 2023 has been evaluated as Class 3 estimates. This includes a total of four (4) projects.

For all programs, the Class 3 cost estimates for individual projects within the program will be obtained through preliminary engineering prior to construction.



Capital Budget Changes – Solid Waste Disposal Fund

Projects (\$000's)	MYB Criteria	2023 Preliminary	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2023 to 2027 Total	2028 Forecast	6-year Total
Council Approved Forecast		3,850	2,350	1,900	4,200	4,510	16,810	-	16,810
Increase / (Decrease) From Forecast:									
Brady Road Resource Management Facility - Cell Construction		-	-	-	-	-	-	1,500	1,500
Closed Landfill Site Improvement		-	-	-	-	-	-	-	-
Soil Fabrication for Landfill Cover		-	-	-	-	-	-	900	900
Brady Road Resource Management Facility - Landfill Gas Capture Expansion		-	-	-	-	-	-	1,000	1,000
Brady Road Resource Management Facility - Drainage and Roadways	REV/COST	-	-	-	-	(610)	(610)	-	(610)
Comprehensive Integrated Waste Management Strategy (CIWMS) - Review	REV/COST	(60)	-	-	-	-	(60)	450	390
Winnipeg Climate Action Plan and Policy Updates	REV/COST	330	-	-	-	-	330	330	660
Data Collection Enhancement for Winnipeg Climate Action Plan	REV/COST	330	-	-	-	-	330	-	330
Collections Management System	REV/COST	200	-	-	-	-	200	-	200
Total Changes		800	-	-	-	(610)	190	4,180	4,370
PRELIMINARY CAPITAL BUDGET		4,650	2,350	1,900	4,200	3,900	17,000	4,180	21,180

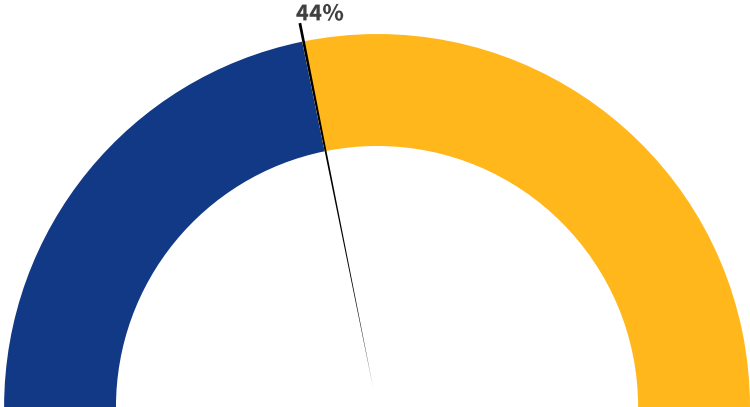
Variance from Forecast:

Collections Management System includes rebudget of \$200,000 into 2023

Budget Challenges

Budget Outlook

6-Year Infrastructure Funding Level



Planned Investment
Total Potential Capital

=

\$1.012 billion
\$2.322 billion

=

44% Funded

City's 2023 to 2028 Infrastructure Funding Gap is \$5.7 billion

Other Important Budget Information

Provincial and Federal Funding

1. Headworks Facilities

- On July 23, 2021 the Federal and Provincial governments announced \$212.86M in Investment in Canada Infrastructure Program (ICIP) funding for the NEWPCC Upgrade Power Supply and Headworks project. \$116.11M in Federal and \$96.75M in Provincial funding.

2. Biosolids Facilities

- On August 16, 2022, the Federal and Provincial governments announced \$368.25M in Investment in Canada Infrastructure Program (ICIP). \$200.87M in Federal and \$167.38M in Provincial funding.
- Additional budget requirements are to be determined and will be referred to the 2024 Capital Budget process.

3. Nutrient Removal Facilities

- To date no provincial or federal funding has been secured for the NEWPCC Upgrade Nutrient Removal Facilities (estimated \$828M total project cost)

