



**City of Hamilton**  
**GENERAL ISSUES COMMITTEE**  
**AGENDA**

**Meeting #:** 22-021  
**Date:** November 24, 2022  
**Time:** 9:30 a.m.  
**Location:** Council Chambers  
Hamilton City Hall  
71 Main Street West

Stephanie Paparella, Legislative Coordinator (905) 546-2424 ext. 3993


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<b>1. APPROVAL OF AGENDA</b>	
<b>2. DECLARATIONS OF INTEREST</b>	
<b>3. APPROVAL OF MINUTES OF PREVIOUS MEETING</b>	
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10. ADJOURNMENT



**CITY OF HAMILTON**  
**CORPORATE SERVICES DEPARTMENT**  
**Financial Planning, Administration and Policy Division**

<b>TO:</b>	Chair and Members General Issues Committee
<b>COMMITTEE DATE:</b>	November 24, 2022
<b>SUBJECT/REPORT NO:</b>	2023 Recommended Water, Wastewater and Stormwater Budget (FCS22054) (City Wide)
<b>WARD(S) AFFECTED:</b>	City Wide
<b>PREPARED BY:</b>	Katie Black (905) 546-2424 Ext. 6415 Matt Hilson (905) 546-2424 Ext. 1444 John Savoia (905) 546-2424 Ext. 7298
<b>SUBMITTED BY:</b>	Mike Zegarac General Manager, Finance and Corporate Services Corporate Services Department
<b>SIGNATURE:</b>	

**RECOMMENDATION(S)**

- (a) That the metered water consumption charges for average residential properties (meters < 25mm in size) in the City of Hamilton be imposed at the following rates, effective January 1, 2023:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.98
> 10	1.96

- (b) That the metered water consumption charge for commercial, industrial, institutional and larger residential properties (meters = >25mm in size) in the City of Hamilton be imposed at the rate of \$1.96 per cubic metre, effective January 1, 2023;
- (c) That daily water fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2023:

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Meter Size	Daily Water Rate
15 mm	\$0.43
16 mm	\$0.43
20 mm	\$0.43
21 mm	\$0.43
25 mm	\$1.08
38 mm	\$2.15
50 mm	\$3.44
75 mm	\$6.88
100 mm	\$10.75
150 mm	\$21.50
200 mm	\$34.40
250 mm	\$49.45
300 mm	\$73.10

- (d) That the wastewater / storm treatment charges for average residential properties (meters < 25mm in size) in the City of Hamilton be imposed at the following rates, effective January 1, 2023:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.98
> 10	1.96

- (e) That the wastewater / storm treatment charge for all commercial, industrial, institutional and larger residential properties (meters = >25mm in size) in the City of Hamilton be imposed at the rate of \$1.96 per cubic metre, effective January 1, 2023;
- (f) That daily wastewater / storm fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2023:

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Meter Size	Daily Wastewater / Storm Rate
15 mm	\$0.47
16 mm	\$0.47
20 mm	\$0.47
21 mm	\$0.47
25 mm	\$1.18
38 mm	\$2.35
50 mm	\$3.76
75 mm	\$7.52
100 mm	\$11.75
150 mm	\$23.50
200 mm	\$37.60
250 mm	\$54.05
300 mm	\$79.90

- (g) That the residential non-metered annual water rate be imposed at the flat rate of \$715.40 per annum, effective January 1, 2023;
- (h) That the residential non-metered annual wastewater / storm rate be imposed at the flat rate of \$715.40 per annum, effective January 1, 2023;
- (i) That the residential combined non-metered annual water and wastewater / storm rate be imposed at the flat rate of \$1,430.80 per annum, effective January 1, 2023;
- (j) That the Private Fire Line rates be imposed at the following rates, effective January 1, 2023:

Connection Size		Monthly Rate
mm	inches	
25	1	\$4.30
38	1.5	\$9.88
50	2	\$17.18
75	3	\$38.66
100	4	\$68.72
150	6	\$154.63
200	8	\$274.89
250	10	\$274.89
300	12	\$274.89

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- (k) That the 2023 Water, Wastewater and Storm Proposed User Fees and Charges be imposed as per Appendix “G” to Report FCS22054, effective January 1, 2023;
- (l) That the 2023 Water, Wastewater and Stormwater Rate Supported Operating Budget in the amount of \$272,446,747 be approved as per Appendix “A” to Report FCS22054;
- (m) That the long-term financing plan for the Water, Wastewater and Stormwater programs and related rate increases required to meet sustainable financing as identified in the 2023 Water, Wastewater and Stormwater Rate Supported Operating Budget forecast 2024-2032 (Appendix “A” to Report FCS22054) be approved, in principle;
- (n) That the 2023 Water, Wastewater and Stormwater Rate Supported Capital Budget and Financing Plan in the amount of \$255,306,080 be approved as per Appendices “K”, “N”, “Q” and “S” to Report FCS22054;
- (o) That the 2024-2032 Water, Wastewater and Stormwater Rate Supported Capital Budget forecast and financing plan (Appendix “I” to Report FCS22054) be approved, in principle;
- (p) That the City Solicitor be authorized and directed to prepare, for Council approval, all necessary by-laws respecting the 2023 water and wastewater / storm user fees, charges and rates set out in Recommendations (a) through (k) of Report FCS22054;
- (q) That the 2023 Rate Supported Staffing Summary be approved as per Appendix “F” to Report FCS22054;
- (r) That the General Manager, Finance and Corporate Services, be authorized and directed to negotiate and confirm the terms for the placement and issuance of all debenture issue(s), and / or private placement debenture issue(s), in either a public or private market and / or bank loan agreements and debenture issue(s) and / or variable interest rate bank loan agreements and debenture issue(s), in an amount not to exceed \$82,913,428 Canadian currency as attached in Appendices “K”, “N” and “Q” to Report FCS22054, which includes \$14,892,398 in Rate Supported municipal debt and \$68,021,030 Rate Supported Development Charges municipal debt;
- (s) i) That the General Manager, Finance and Corporate Services, be authorized to engage the services of all required professionals to secure the terms and issuance of the debenture issue(s) described in Recommendations (r) and (t) including, but not limited to, external legal counsel and fiscal agents;

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**SUBJECT: 2023 Recommended Water, Wastewater and Stormwater Budget  
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- ii) That the General Manager, Finance and Corporate Services, is authorized and directed, on behalf of the City of Hamilton, to enter into and / or execute, all agreements and necessary ancillary documents to secure the terms and issuance of the debenture issue(s) described in Recommendations (r) and (s) and conditional upon the by-law being enacted as described in Recommendation (t) to Report FCS22054, on terms and conditions satisfactory to the General Manager, Finance and Corporate Services, and in a form satisfactory to the City Solicitor;
- (t) That staff be authorized and directed to prepare all necessary By-Law(s), for Council's consideration, for the purpose of authorizing debenture issue(s) described in Recommendation (r) to Report FCS22054;
- (u) That the New Development Water Customer Attachment Billing Policy be revised to reinstate applicable Construction Water Fees effective January 1, 2023, as per Appendix "U" to Report FCS22054;
- (v) That the City of Hamilton appeal to the Province of Ontario and the Federal Government of Canada for financial assistance in addressing the infrastructure deficit in the water, wastewater and storm programs.

## **EXECUTIVE SUMMARY**

The 2023 Recommended Water, Wastewater and Stormwater (Rate) Budget is submitted for Council's consideration. The 2023 Rate Budget balances the need to invest in environmental infrastructure upgrades and changing trends in demand for water and growth in users. Over the period 2023 to 2032, capital investments in water, wastewater and stormwater infrastructure are forecasted at \$3.27 B, which represents an increase of \$0.57 B from last year's 10-year forecast. This budget focuses on growing our economy, environmental stewardship, climate change resilience, financial sustainability and effective inter-governmental relations.

The Rate Capital Budget was prepared in accordance with the City of Hamilton's Strategic Asset Management Policy. The Ministry of Infrastructure filed Ontario Regulation 588/17 – Asset Management Planning for Municipal Infrastructure under Bill 6, *Infrastructure for Jobs and Prosperity Act* ("Act") on December 27, 2017. Regulation 588/17 went into force on January 1, 2018 and applies to all infrastructure assets directly owned by a municipality or consolidated on the municipality's financial statements. Through Report PW22048, the City of Hamilton's Asset Management Plans for core assets was approved by the General Issues Committee on June 15, 2022. Core assets include transportation (roads and engineered structures), water works (water, wastewater, storm) and the costs to maintain the City's current level of service.

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The 2023 Rate Operating Budget program expenditures of \$108.5 M reflects an increase of \$10.1 M or 10.3% over the 2022 Budget. The majority of costs are fixed, in nature, at approximately 90% of total operating costs including employee related costs, materials and operating supplies and corporate cost allocations. The remaining costs are variable related to production volumes (utility costs, fluid and chemicals, biosolids contract).

The 2023 Rate Operating Budget expenditures contain the request for eight new full-time equivalent (FTE) employees. The 2023 net operating cost of the request is approximately \$666 K (net annualized cost of \$816 K). The FTE requests are largely driven by regulatory pressures, health and safety, business benefits and operating impacts from capital. For the full FTE request details, please refer to Appendix “F” to Report FCS22054.

Beyond employee related costs, there are increases in operating and maintenance expenditures (O&M). Increases in O&M expenditures are largely driven by existing facility pressures, increased compliance standards in soils management, utility locate services, inlet and outlet maintenance, as well as, the new Tertiary Treatment Facility. Lastly, the price for fluid and chemicals used to treat water and wastewater at the City’s Water Treatment Facilities and WWTPs is increasing versus last year’s budgeted price.

Capital financing costs, including reserve transfers, in the 2023 Requested Budget of \$163.9 M reflects an increase of \$4.5 M over the 2022 Budget. With non-rate revenues of \$3.0 M, rate revenues of \$269.4 M are required to meet operating (program and capital financing) expenditures.

Table 1 summarizes the budget changes for the 2023 Requested Budget.



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Table 1

<b>Summary of the 2023 Operating Budget</b>				
(\$ millions)	2022	2023	2023 Requested / 2022 Restated	
	Restated Budget	Requested Budget	Change	
			\$	%
<b>Expenditures</b>				
Program Expenditures	\$ 98.4	\$ 108.5	\$ 10.1	10.3%
Capital/Debt / Reserve Financing	\$ 159.4	\$ 163.9	\$ 4.5	2.8%
<b>Total Expenditures</b>	<b>\$ 257.9</b>	<b>\$ 272.4</b>	<b>\$ 14.6</b>	<b>5.7%</b>
<b>Revenues</b>				
Rate Revenue	\$ 254.9	\$ 269.4	\$ 14.5	5.7%
Non-Rate Revenue	\$ 2.9	\$ 3.0	\$ 0.1	3.0%
<b>Total Revenue</b>	<b>\$ 257.9</b>	<b>\$ 272.4</b>	<b>\$ 14.6</b>	<b>5.7%</b>
<b>Average Residential Water / Wastewater / Storm Bill</b>	<b>\$ 823.85</b>	<b>\$ 877.30</b>	<b>\$ 53.45</b>	<b>6.49%</b>

Note: Anomalies due to rounding.

Chart 1 highlights that the proposed combined 6.49% rate increase is driven entirely by increased operating and capital financing expenditures in 2023.

Chart 1

Drivers of 6.49% Rate Increase

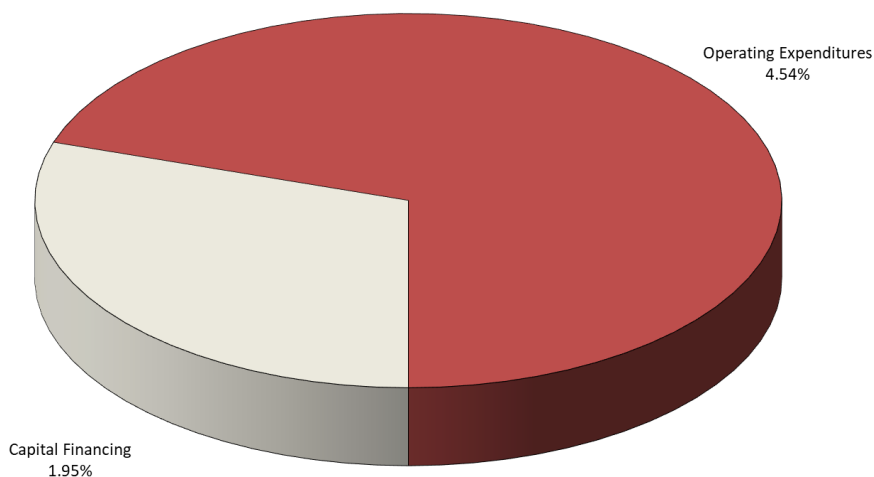


Table 2 identifies the proposed rate increase impact on the average residential customer.

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**Table 2**  
**Impact of Recommended 2023 Water and Wastewater /  
Storm Rate Increases on a Typical Residential Bill**  
(Based on annual water consumption of 200 m<sup>3</sup>)

2022 Residential Bill	\$823.85
2023 Residential Bill	\$877.30
Recommended Change (\$)	\$53.45
Recommended Change (%)	6.49%

The recommended 2023 Rate Supported Strategy is consistent with the Strategy approved by Council, in principle, for 2022. Staff had forecast the need for a combined 6.49% rate increase in 2023.

While it is true that the Rate Supported Budget Financing Strategy has changed, from time to time, the overall goal of achieving a sustainable level of funding to support the necessary infrastructure investments has not. The amended Strategy calls for combined rate increases averaging 10% from 2024 – 2032.

In general, the goal of the Strategy has been to support the water, wastewater and storm programs through a sustainable level of funding. Capital investment forecasts have changed for a number of reasons creating the need for additional financial resources. It should be noted that the intention of the 2022 Strategy was to provide approximately \$2.3 B (2021\$) in support of the 2023 - 2031 capital program. The 2023 Strategy calls for funding of approximately \$2.9 B (2022\$) to support the 2024 – 2032 capital program.

Charts 2 and 3 highlight the 2023 Strategy relative to the previously approved 2022 Strategy. The proposed rate increases in 2024 through 2032 represent the funding required for both direct investment in infrastructure and servicing requirements for additional debt in order to fund the \$0.6B increase in projected infrastructure requirements over the next ten years. The year over year change in infrastructure requirements is largely driven by water and wastewater system improvements.

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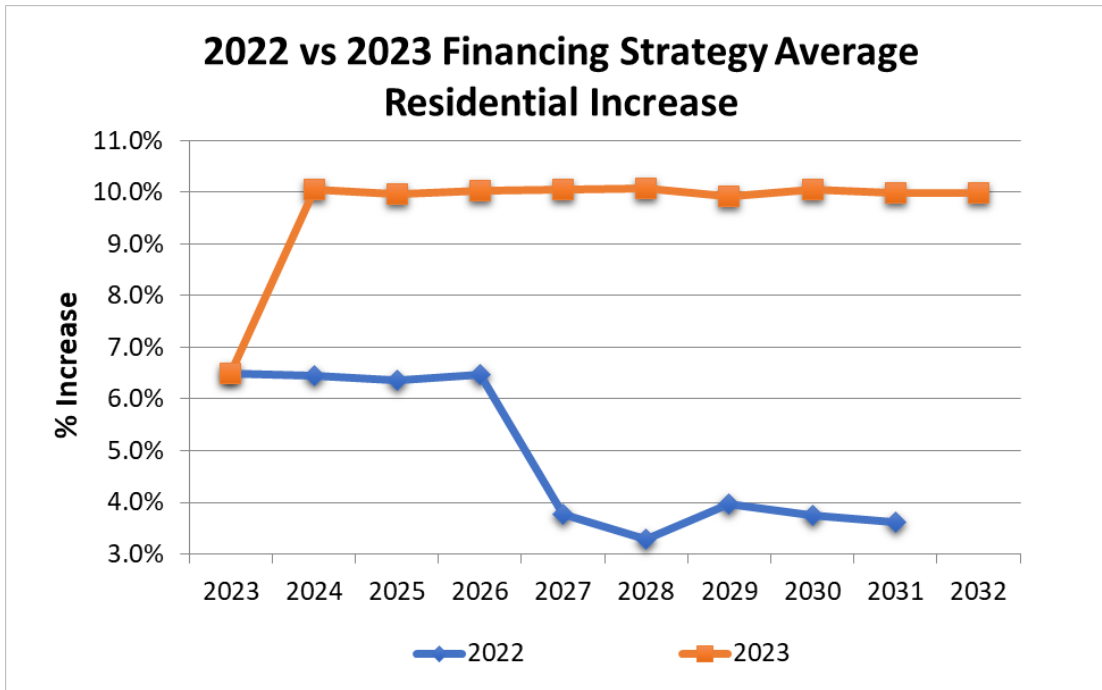
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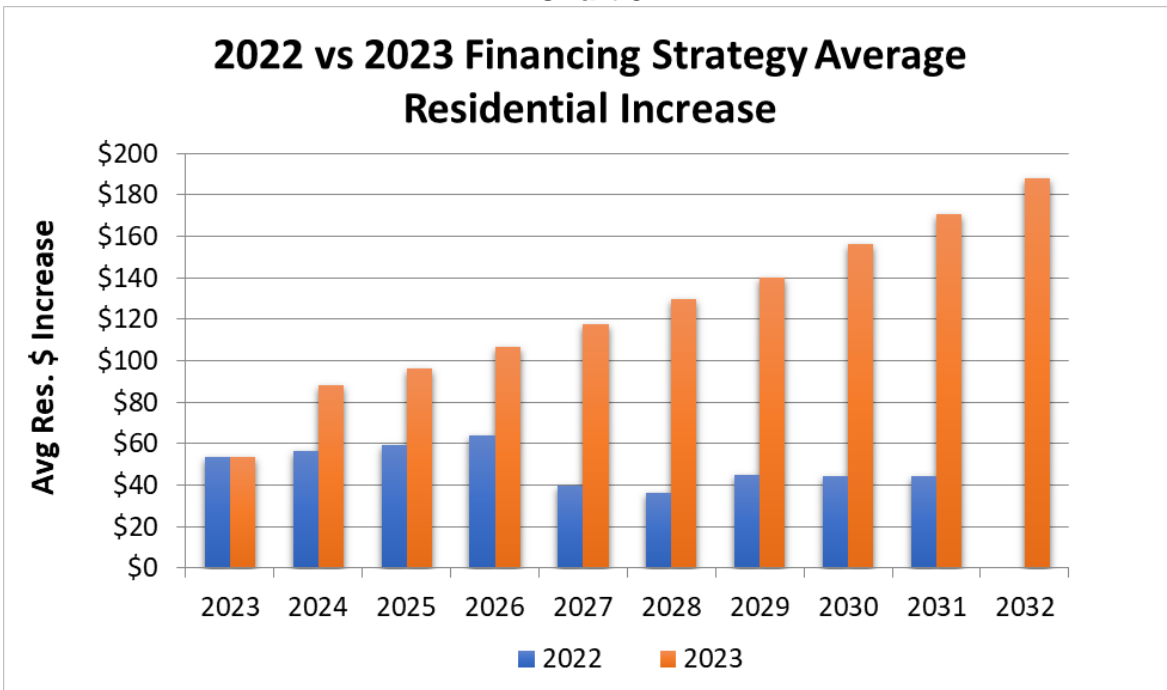
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**Chart 2**



**Chart 3**



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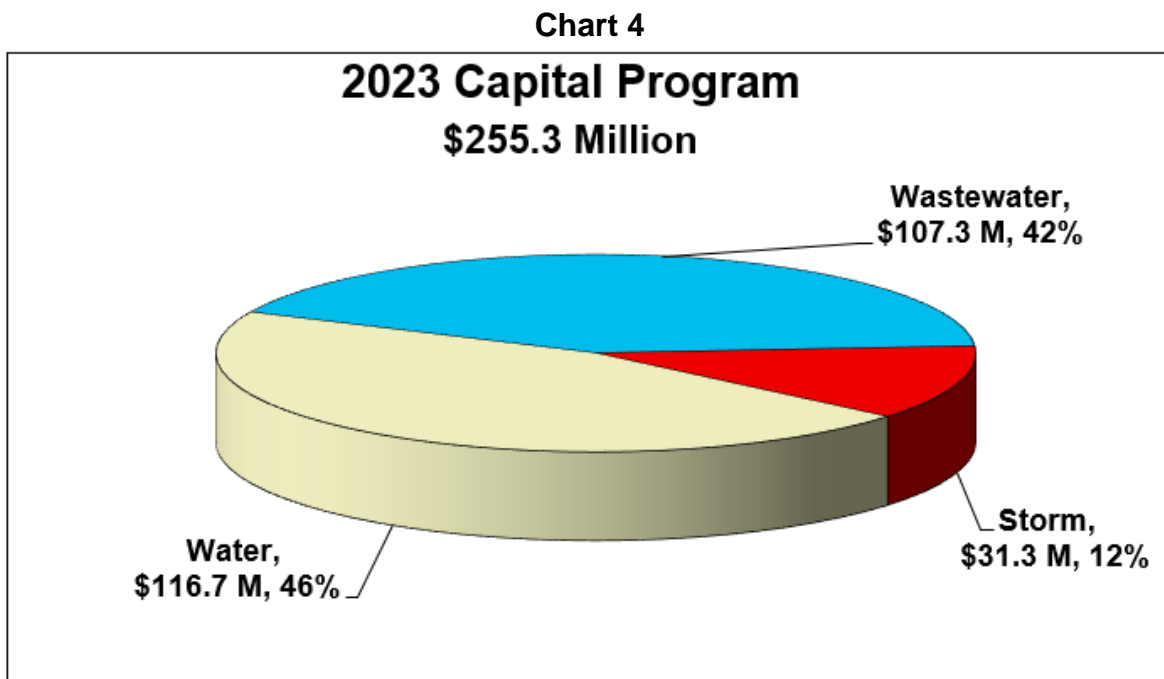
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The recommended 2023 Rate Supported Financing Strategy endeavours to achieve a balance between capital investment needs, rate of growth and rate stability. The 2023 Rate Supported Financing Strategy links forecast water demand and estimated wastewater discharge with a staged approach to necessary capital investments in the water, wastewater and stormwater systems. The current strategy calls for capital funding in 2023 of approximately \$255.31 M (2022\$) and \$3.27 B (2022\$) for the 2023 – 2032 timeframe. The 2023 Strategy includes financing from the federal and provincial governments with respect to the Woodward WWTP rehabilitation and upgrades, specifically, in support of the Hamilton Harbour Remedial Action Plan. Advocacy efforts with the Province of Ontario and the Federal Government of Canada for financial assistance are required to address the infrastructure deficit in the water, wastewater and storm programs.

Chart 4 provides a breakdown of the 2023 Rate Capital Program totalling \$255.31 M, by the three major program areas: Water, Wastewater and Storm.



Report FCS22054 identifies significant risks related to a variety of conditions which may impact ratepayers and, in combination, may place significant financial pressures on ratepayers. These risk factors detailed in later sections of Report FCS22054 include increased operating and capital investment requirements. Staff pursued a variety of measures to control the impact of the above risks to maintain a safe and reliable service at a reasonable cost.

**Alternatives for Consideration – See page 35**

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**FINANCIAL – STAFFING – LEGAL IMPLICATIONS**

**Financial:** As per Recommendation (l) of Report FCS22054, approval of the 2023 Water, Wastewater and Stormwater Supported Operating Budget will support operating and capital financing expenditures of \$272,446,747 for 2023. As per Recommendation (n) of Report FCS22054, approval of the 2023 Water, Wastewater and Stormwater Rate Supported Capital Budget and Financing Plan will support capital expenditures of \$255,306,080 for 2023.

**Staffing:** The 2023 Rate Supported staffing complement reflects a requested increase of 8.0 FTE as reflected in Appendix “F” to Report FCS22054.

**Legal:** Recommendation (p) of Report FCS22054 relates to By-laws requiring Council approval, respecting the implementation of 2023 water and wastewater user fees and charges set out in the Recommendations (a) through (k) of Report FCS22054.

**HISTORICAL BACKGROUND**

The 2023 Rate Budget continues to support the priority of investing in infrastructure as evidenced by the 2023 to 2032 forecast investment of approximately \$3.27 B in water, wastewater and stormwater capital infrastructure.

Report FCS22054 outlines the various aspects and components that the recommended 2023 Rate Supported strategy incorporates:

- Sustainable Rate Strategy
- Proposed 2023 Water and Wastewater / Storm Rates
- Operating Budget Highlights
- Capital Budget Highlights
- Water Consumption Review and Forecast

**POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS**

The recommended options support the principle of a user-pay water and wastewater / storm system. The Rate Reserve Policy has guided staff’s recommended use of rate reserves as a funding source in the 2023 - 2032 financing plan.

**RELEVANT CONSULTATION**

Public Works, Hamilton Water Division, provided operating / capital expenditure and non-rate revenue forecasts as reflected in Report FCS22054.

Senior Leadership Team (SLT) reviewed a number of rate financing strategies.

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**ANALYSIS AND RATIONALE FOR RECOMMENDATIONS**

Appendix “A” to Report FCS22054 summarizes the 2023 operating budget expenditures (program and capital financing) and revenues of \$272.4 M compared to the 2022 restated budget of \$257.9M.

The 2023 Rate Operating Budget program expenditures of \$108.5 M reflects an increase of \$10.1 M or 10.3% over the 2022 Budget. The majority of costs are fixed, in nature, at approximately 90% of total operating costs including employee related costs, materials and operating supplies and corporate cost allocations. The remaining costs are variable related to production volumes (utility costs, fluid and chemicals, biosolids contract).

The 2023 Rate Operating Budget expenditures contain the request for eight new full-time equivalent (FTE) employees. The 2023 net operating cost of the request is approximately \$666 K (net operating annualized cost of \$816 K). The FTE requests are largely driven by regulatory pressures, health and safety, business benefits and operating impacts from capital. For the full FTE request details, please refer to Appendix “F” to Report FCS22054.

Beyond employee related costs, there are increases in operating and maintenance expenditures (O&M). Increases in O&M expenditures are largely driven by existing facility pressures, increased compliance standards in soils management, utility locate services, inlet and outlet maintenance, as well as, the new Tertiary Treatment Facility at the Woodward Avenue Wastewater Treatment Plant (WWTP). Lastly, the price for fluid and chemicals used to treat water and wastewater at the City’s Water Treatment Facilities and WWTPs is increasing versus last year’s budgeted price.

**2023 Proposed Rate Increases**

As outlined in the Executive Summary section of Report FCS22054, the proposed rate impact for the average residential water, wastewater and storm annual bill would be \$53.45 (6.49%). The recommended 2023 increase remains the same as what was approved, in principle, for 2023 in Report FCS21088.

Water and wastewater service user fees have been reviewed in accordance with the User Service Fee and Charges Policy which require identification of both the cost of the service and the fees / charges to recover such cost with the intent that full cost recovery is achieved. Some service fees are unchanged with full cost recovery currently being achieved with others undergoing varying fee increases to achieve full cost recovery.

The impact of the 2023 recommended rate increases on the water and wastewater / storm fixed charges, as well as, the water consumption and wastewater / storm treatment charges are identified in Table 3.

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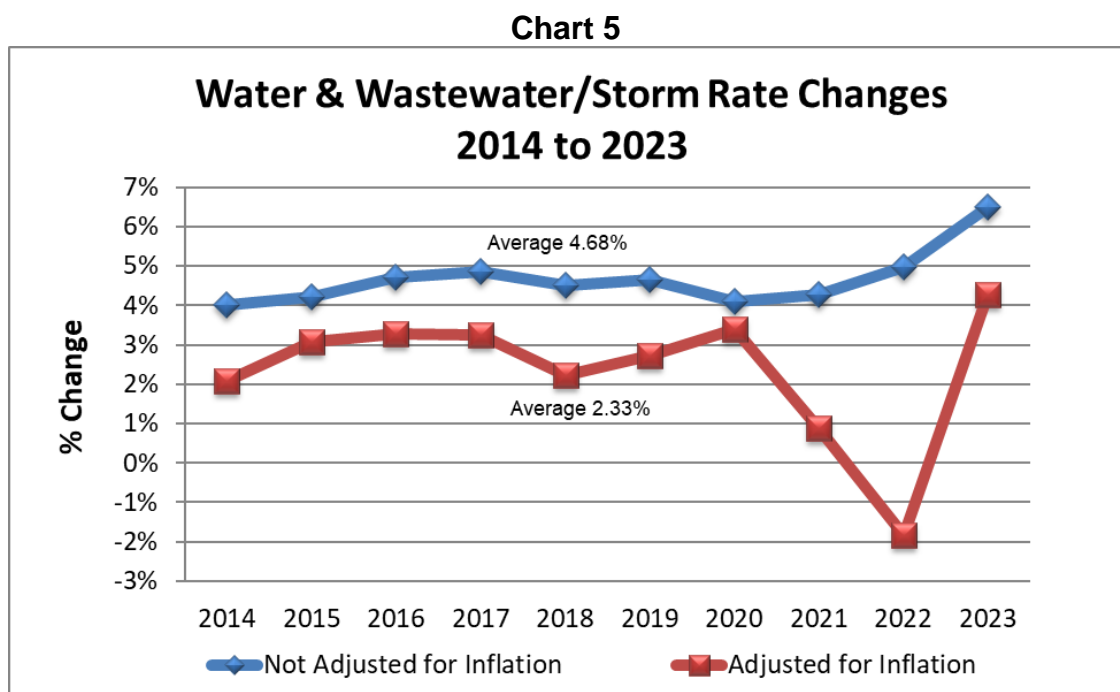
**Table 3  
Impact of Recommended Rate Increases on  
Water and Wastewater / Storm Rates**

	2022	2023	Increase
<b>Water</b>			
Fixed Charge (daily) <sup>1</sup>	\$0.41	<b>\$0.43</b>	\$0.02
Consumption Charge Block 1 (0-10 cubic metres / month)	\$0.89	<b>\$0.98</b>	\$0.09
Consumption Charge Block 2 (>10 cubic metres / month)	\$1.77	<b>\$1.96</b>	\$0.19
<b>Wastewater / Storm</b>			
Fixed Charge (daily) <sup>1</sup>	\$0.44	<b>\$0.47</b>	\$0.03
Treatment Charge Block 1 (0-10 cubic metres / month)	\$0.95	<b>\$0.98</b>	\$0.03
Treatment Charge Block 2 (>10 cubic metres / month)	\$1.89	<b>\$1.96</b>	\$0.07

<sup>1</sup> Rate for a 15-21 mm meter which is installed in most residential homes.

**Trends in Combined Rate Changes 2014-2023**

Hamilton’s overall average annual combined water and wastewater / storm rate increase is 4.7% before adjusting for inflation during the 10-year period from 2014 to 2023. Accounting for inflation results in the overall average, the annual rate increase over the same period would be 2.3%. Chart 5 shows the trend in Hamilton’s combined water and wastewater / storm rates for the period 2014 to 2023.



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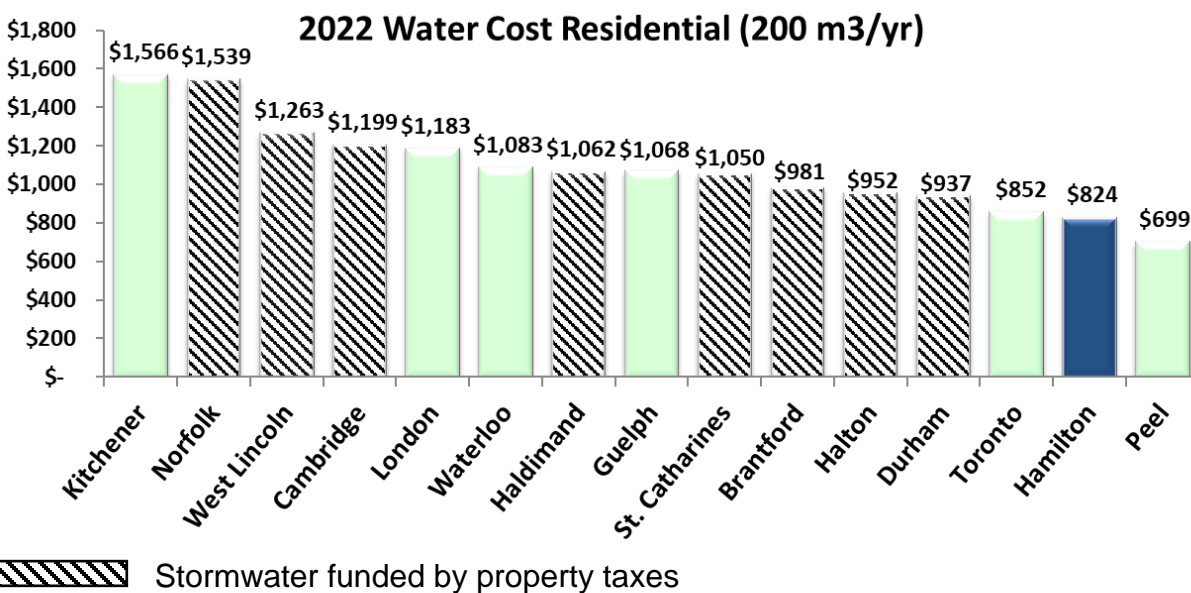
## Comparative Rates

In recent years, staff reported that Hamilton’s water and wastewater / storm rates have remained competitive, inclusive of the fact that annual rate increases over the past decade have averaged 4.7% before adjusting for inflation.

Over the past decade, Hamilton’s ability to maintain competitive water and wastewater / storm rates, given the magnitude of the rate increases approved over this same period, reflects the fact that, like Hamilton, other municipalities are addressing many of the same investment requirements as previously identified.

In 2022, Hamilton’s residential annual water and wastewater / storm bill continued to be the second lowest within its local municipal comparator group. Though Hamilton largely funds its stormwater management program through its wastewater / storm fee, it still has been able to maintain competitive rates as reflected in Chart 6.

**Chart 6**



## Affordability

Staff continue to assess ratepayers’ ability to pay current water and wastewater / storm billings. Ability-to-pay is primarily a function of income related to the cost of living. Fixed costs, such as housing, property taxes, utilities and other necessities take a smaller share of household income for households with higher income levels.

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A review of BMA Management Consulting's 2021 Municipal Survey (participation by 114 Ontario municipalities) indicates that while Hamilton's median household income of \$100,036 is below the survey median \$103,024, Hamilton's average residential water and wastewater annual bill of \$785 represents 0.8% of household income that compares favourably to the survey average of 1.1%. With the forecasted average annual increases of 10% from 2024 to 2032, it is expected that the residential water bill will increase to approximately 1.6% of household income by 2032, assuming incomes will increase at the Bank of Canada projected rate of inflation over that time period.

Another measure of affordability may be to review water bill delinquency rates. Per the City's Arrears Policy unpaid water and wastewater / storm arrears that remain unpaid 60 days past the invoice due date are transferred to the property's tax roll. Alectra reports this metric within their annual service activity report (for details refer to Report FCS22077).

From 2017 to 2021, the number of unpaid arrears tax roll transfers has more than doubled over the five-year period from approximately 11,700 transfers to 23,800 transfers. With respect to transferred arrears amounts, about \$2.3 M was transferred in 2017 and \$4.7 M in 2021 (over 100% increase). It should be noted that the change to monthly residential billing was completed in June 2017 and, generally speaking, more frequent billing was expected to help with the ability to manage bills. Hence, the increase in arrears transfers since 2017 is most concerning as approximately 90% of arrears transfers are related to residential accounts. Prior to 2017, a significant portion of arrears transfers were associated with large commercial / industrial accounts.

In January 2020, the minimum arrears threshold amount for an active account was increased to \$100 from \$75 in an attempt to provide more time for outstanding lower arrears amounts to be addressed before tax roll transfers occur. Approximately 30% of arrears transfers in 2019 were for arrears amounts between \$75 and \$100. However, the expected reduction in the number of arrears transfers was not realized as the number of transfers increased by 5% in 2020.

The minimum arrears threshold amount for an active account was increased to \$125 as of January 1, 2022. As of September 2022, the year-to-date total number of arrears are down by 19% compared to 2021. However, the year-to-date transferred dollar amount has not decreased to the same extent, only \$249K or 7% lower than 2021. The increased threshold change has only postponed the tax roll transfer if the arrears remain unpaid. It should be noted that an administrative fee is applied by Taxation for each arrears tax roll transfer occurrence (for 2022, the fee is \$36.73 plus H.S.T.). Staff will continue to monitor water bill delinquency rates on an ongoing basis to gauge the impact of increasing water bills.

Additionally, payment arrangements can be viewed as a leading indicator of arrears transfers as a percentage of payment arrangements will default resulting in further arrears transfers to the tax roll. There has been a sharp increase in the number of payment arrangements since April 2022 coinciding with increasing interest rates. Year-to-date,

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there has been a 73% increase in the total number of deferred payments over the same time period in 2021. This represents 0.08% of total bills in 2022 compared to 0.04% of total bills in 2021.

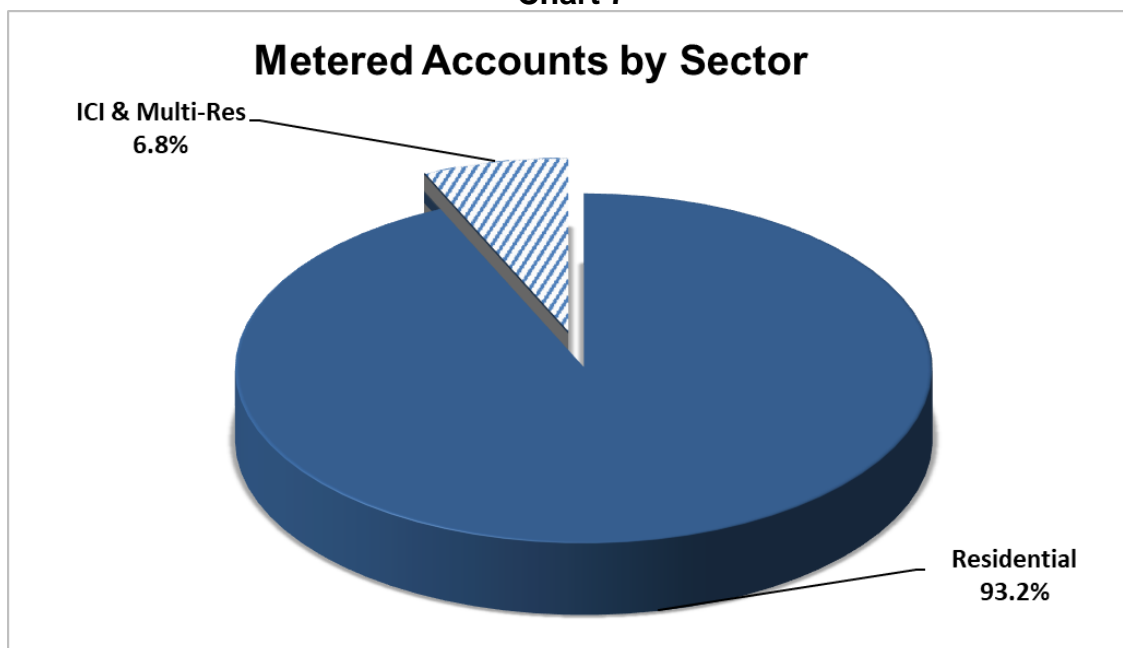
Of note, one factor that may be contributing to increasing tax roll transfers and payment arrangements is, unlike with some other utilities (natural gas and electricity), service disconnection is not utilized to address unpaid water bills in Hamilton. A number of neighbouring water utilities employ service disconnection within their collection policies.

## **CONSUMPTION AND RATE-GENERATED REVENUES**

### **Metered Water Consumption**

Currently, the City has nearly 157,000 metered water accounts (see Chart 7). Residential users account for 93.2% of total metered accounts and approximately 49.6% of total water consumption. While industrial, commercial, institutional and multi-residential accounts only make up 6.8% of total metered accounts, Industrial Commercial Institutional (ICI) and multi-residential (multi-res) water consumption comprises 50.4% of total consumption (see Chart 8).

**Chart 7**




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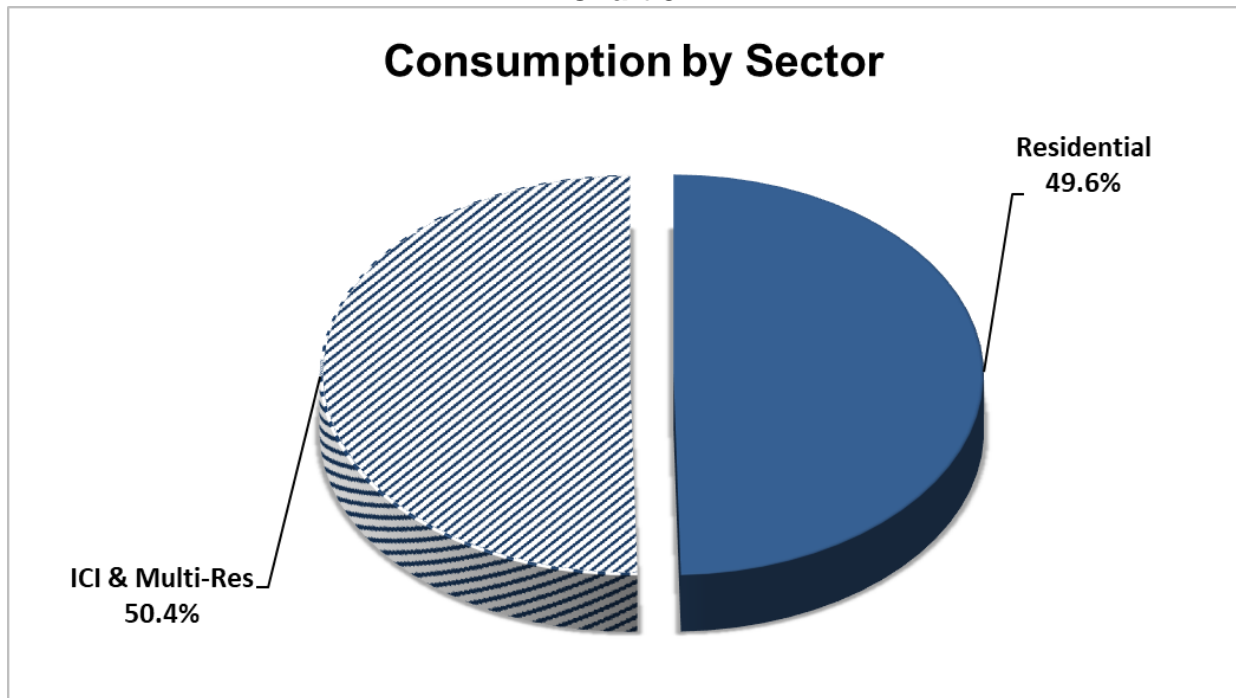
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**Chart 8**

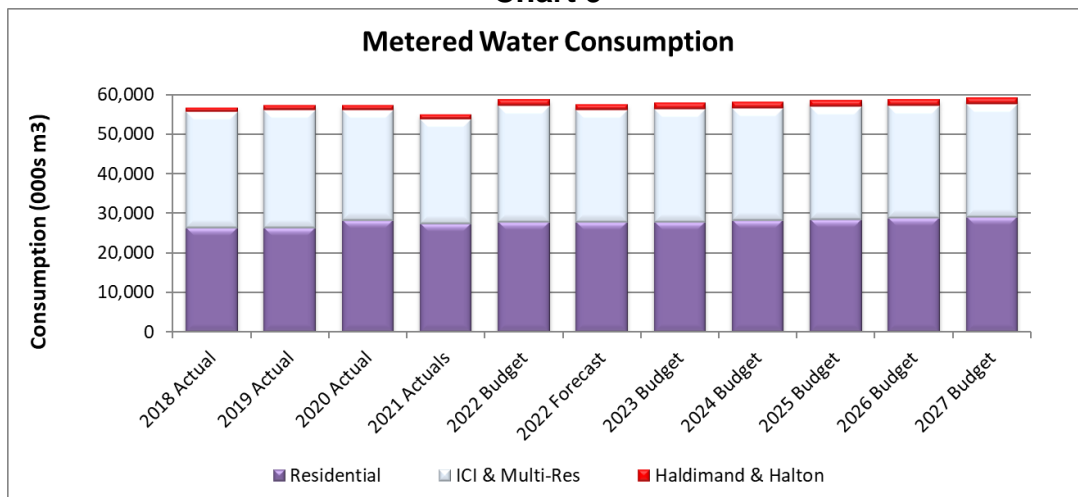


**Total Consumption – 2023 Budget \$254.0 M**

Revenues associated with consumption of \$254.0 M represents approximately 94% of the total 2023 Rate Budget revenues of \$272.4 M.

Since 2018, Hamilton’s total metered annual water consumption (see Chart 9) has remained at approximately 55-57 M cubic metres. The 2022 projected total consumption is nearly 58 M cubic metres. The 2023 Budget of 57.8 M cubic metres is approximately 1.0% below the consumption in the 2022 Budget.

**Chart 9**



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Total water consumption forecast over the 10-year period (2023 to 2032) reflects relatively flat consumption demand. This relatively conservative forecast reflects the following:

- Continued uncertainty surrounding growth / decline of consumption
- Conservation impacts:
  - residential toilet consumption = 35% of indoor consumption
  - newer high-efficiency toilets and washers
  - ICI / Multi-Residential water use audits

In 2022, to better understand recent declined consumption of large industrial and institutional customers, staff conducted a survey of the top water users. There was a response rate of 24%. A common theme among the response was that steps have been taken to reduce the use of excess water, whether that be through process audits, regular reviews of water usage, leak detection programs, plumbing repairs, retro-fitting, etc.

Depending on the nature of the business, the ongoing COVID-19 pandemic has had a positive or negative effect on a company's consumption.

Forecasted over the next five years, five companies, expect their consumption to decrease. Again, the reductions are attributed to the review of processes, new initiative and water conservation projects. One manufacturer will be building a new state of the art facility (which will likely incorporate water efficient processes) and will decommission their current plant over the next two to four years.

Over the next ten years, ArcelorMittal Dofasco (AMD) expects to complete a Decarbonization Project. This Project will see the shutdown of coke making, blast furnace ironmaking and oxygen steelmaking (BOF) processes by 2028. It is still unknown what the impact of the Project on AMD's future water consumption will be, however, AMD has committed to meet with staff on a regular basis as the Project is implemented.

A consumption increase to note is that associated with Haldimand which reflects new residential developments in Caledonia. The increase in water consumption is reflected in the 2023 budget.

Staff will continue to monitor consumption across all sectors and take efforts to ensure that the City is maximizing its full potential with respect to metered water and wastewater / storm revenues. Similarly, staff will be monitoring changes in consumption on an ongoing basis identifying trends and related financial impacts through the Budget Variance Reports provided to Council.

**Residential Consumption – 2023 Budget \$121.7 M**

Since 2018, residential consumption (see Chart 10) has remained relatively unchanged reflecting an observation that new customers' consumption has been offset by reduced consumption of existing customers' ongoing conservation efforts associated with fixture /

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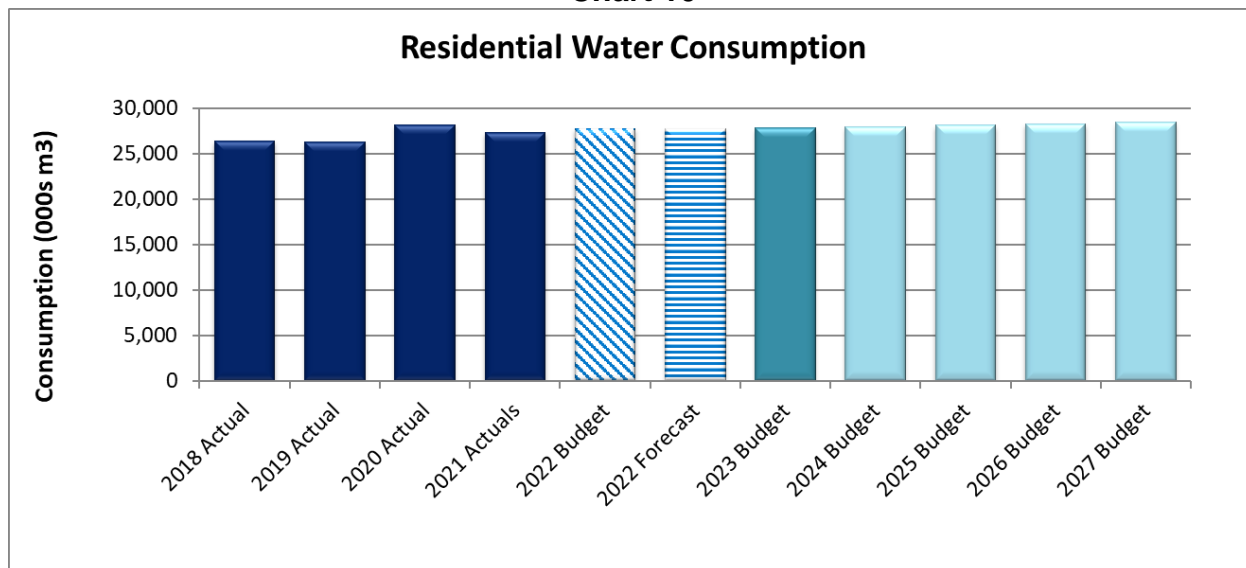
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appliance obsolescence such as the installation of water efficient toilets and washing machines. For 2023, staff is recommending that the forecast for average residential consumption remain at 200 m<sup>3</sup> to reflect the past several years of consumption for an estimate of 27.8 M cubic metres.

It is not clear how much further average residential consumption can decline, but there exists the potential for further declines, principally due to conservation efforts and associated regulations.

**Chart 10**



**Industrial / Commercial / Institutional and Multi-Res Consumption – 2023 Budget \$128.3 M**

Despite continuing growth, particularly in the multi-residential sector, there continues to be ongoing conservation efforts that offset any demand growth associated with new customers. Many existing larger multi-residential customers are implementing water conservation projects.

In sharp contrast to many neighbouring communities, Hamilton is unique in that a significant portion of consumption and, in turn, revenues come from industrial and institutional customers. The top users of the ICI / Multi-res sector representing some 40 customers account for nearly a quarter of total consumption. This reliance on a relatively small number of large water users does pose a risk to revenue stability when these customers undertake water conservation projects or experience a change in business processes as noted above.

As reflected in Chart 11, the ICI / Multi-res sector water consumption forecast has been decreased by 1.0 M cubic metres for the 2023 Budget from what was approved in principle

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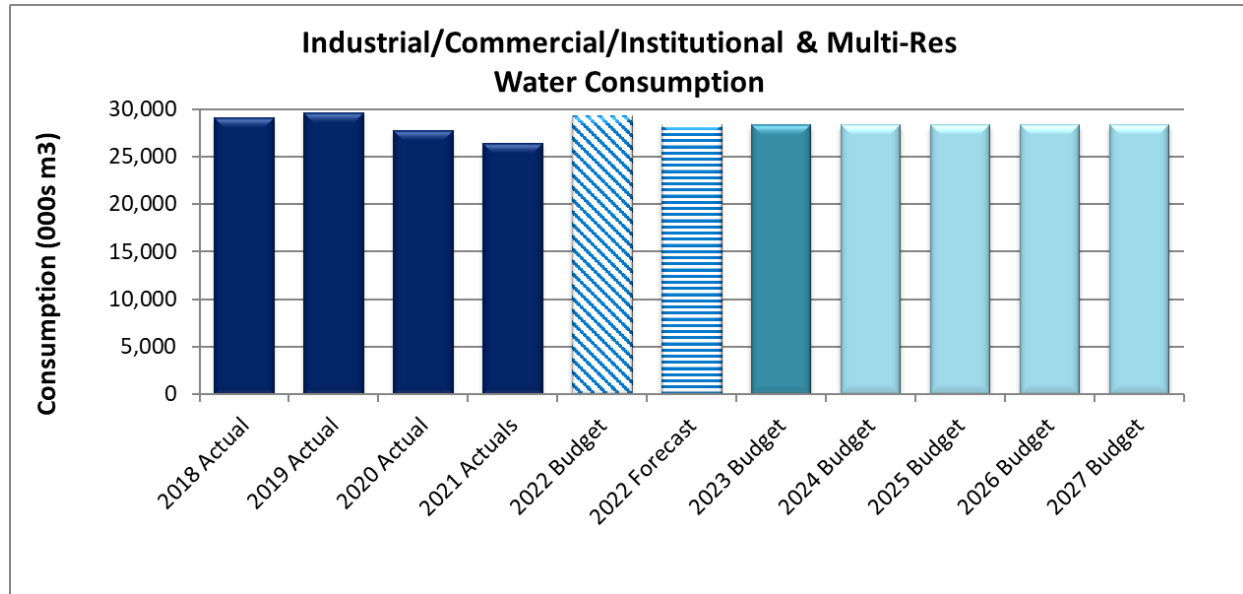
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in the 2022 budget for a reduction of \$3.6 M in revenue. This brings the budget more in line with historical actuals and the forecast remains flat going forward.

**Chart 11**



**External Consumption – 2023 Budget \$3.9 M**

Under long-term arrangements, Hamilton supplies Haldimand County and Halton Region potable water (see Chart 12) but does not provide wastewater / storm services to either community.

A renewed water supply agreement with Haldimand was executed in 2014 for an initial 20-year period with Hamilton supplying water to the communities of Caledonia and Cayuga. As a result of the continued development in Haldimand, the 2023 Budget has been adjusted to reflect an additional 0.2 M cubic meters.

The current water supply agreement for Halton was executed in 2011 for an initial 10-year period with Hamilton supplying water to the Aldershot and Snake Road communities. In September 2019, a renewal agreement was executed that will conclude on November 16, 2031. The 2023 Budget remains the same and is in line with historic actuals.

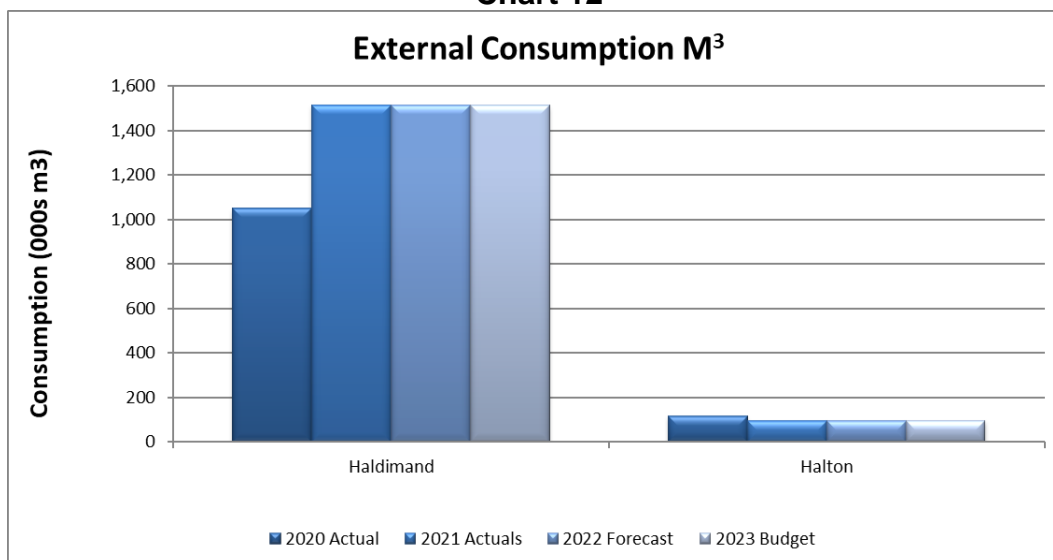
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**Chart 12**



## OTHER REVENUE HIGHLIGHTS

### Sewer Discharge Permits – 2023 Budget \$10.4 M

Surcharge Discharge Permits allow the City of Hamilton a mechanism to recover costs associated with:

- the costs of conveyance, treatment and monitoring of sewage that exceeds by-law limits for treatable parameters (Overstrength Discharge)
- the costs of conveyance, treatment and monitoring of sewage that was not originally purchased by the customer from the City's potable water supply (Sewer Surcharge)

### Permits, General Fees and other Recoveries – 2023 Budget \$3.0 M

Service fees may be charged with the issuance of a permit or alternatively charged on the customer's water bill. Appendix "G" to Report FCS22054 provides details of the user fees and charges that are applicable for various water / wastewater related services provided on an individual basis to customers such as new meter installations, water service turn on or off, laboratory services, etc.

### Private Fire Lines – 2023 Budget \$1.8 M

The Private Fire Protection Charge applies to customers that have private fire protection systems which rely upon the public water system for their water supply via an unmetered fire water service line.

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**2023–2032 Rate Capital Budget**

Table 4 and Appendices “H”, “J”, “M” and “P” to Report FCS22054 summarizes the \$3.27 B capital program and the financing requirements for the 2023–2032 water, wastewater and storm capital budget. Of this amount, \$1.377 B (42%) is for water, \$1.456 B (45%) is for wastewater and \$0.441 B (13%) is for the storm program. A total of \$931 M or 28% of the 10-year capital program is required in the first three years (2023-2025). Significant projects include the Woodward WWTP Upgrade and Expansion, Woodward Water Treatment Plant Upgrade, Dundas WWTP Replacement, Greenhill Pumping Station Replacement, Airport Lands Trunk Sewer and Battlefield Trunk Sewer Twinning. Appendices “L”, “O” and “R” provide a listing of all capital projects within the Water, Wastewater and Storm programs.

The capital program includes \$1.2 B in gross costs for projects supporting growth infrastructure, of which \$923 M will be funded from Development Charges. Most of the Development Charges funding is collected from developers except for an estimated \$90 M in Development Charge (DC) exemption funding which the City’s rate revenues fund. The City has to provide funds for any DC policies that provide an exemption or reduced rate to a developer so that the DC reserves are in the same position they would have been if the exemption or reduced rate had not been provided. The recently announced *More Homes, Built Faster Act* may result in additional restrictions and exemptions related to Development Charges in future budgets.

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Table 4

SOURCE OF CAPITAL FINANCING 2023 to 2032 RATE PROGRAM CAPITAL BUDGET \$(000' S)						
	2023	2024	2025	2026	2027 to 2032	2023 to 2032
<b>WATER</b>						
<b>Capital Program</b>	<b>116,724</b>	<b>157,922</b>	<b>124,459</b>	<b>129,889</b>	<b>848,407</b>	<b>1,377,399</b>
<b>Source of Funding</b>						
Subsidy/Other Revenue	2,220	4,420	-	-	-	6,640
Development Charges	30,403	31,514	23,270	39,208	200,532	324,927
Reserves & Other Internal Sources	11,800	-	-	-	-	11,800
Contribution from Operating	64,300	121,988	101,188	90,681	647,875	1,026,032
External Debt	8,000	-	-	-	-	8,000
<b>Total</b>	<b>116,724</b>	<b>157,922</b>	<b>124,459</b>	<b>129,889</b>	<b>848,407</b>	<b>1,377,399</b>
<b>WASTEWATER</b>						
<b>Capital Program</b>	<b>107,293</b>	<b>134,621</b>	<b>144,321</b>	<b>201,196</b>	<b>868,444</b>	<b>1,455,873</b>
<b>Source of Funding</b>						
Subsidy/Other Revenue	934	5,860	24,820	17,160	35,000	83,774
Development Charges	29,670	39,968	12,637	104,768	317,320	504,362
Reserves & Other Internal Sources	15,566	5,350	5,250	5,250	1,150	32,566
Contribution from Operating	54,231	3,442	35,614	69,663	469,973	632,924
External Debt	6,892	80,000	66,000	4,355	45,000	202,247
<b>Total</b>	<b>107,293</b>	<b>134,621</b>	<b>144,321</b>	<b>201,196</b>	<b>868,444</b>	<b>1,455,873</b>
<b>STORM SEWERS</b>						
<b>Capital Program</b>	<b>255,306</b>	<b>367,724</b>	<b>307,499</b>	<b>357,554</b>	<b>268,930</b>	<b>440,592</b>
<b>Source of Funding</b>						
Subsidy/Other Revenue	-	-	75	75	450	600
Development Charges	12,738	45,532	4,000	5,056	25,892	93,218
Reserves & Other Internal Sources	3,730	-	-	-	-	3,730
Contribution from Operating	14,822	19,464	20,796	17,339	228,705	301,127
External Debt	-	10,186	13,849	4,000	13,883	41,917
<b>Total</b>	<b>31,290</b>	<b>75,182</b>	<b>38,720</b>	<b>26,470</b>	<b>268,930</b>	<b>440,592</b>
<b>TOTAL RATE PROGRAM</b>						
<b>Capital Program</b>	<b>255,306</b>	<b>367,724</b>	<b>307,499</b>	<b>357,554</b>	<b>3,273,863</b>	<b>3,273,863</b>
<b>Source of Funding</b>						
Subsidy/Other Revenue	3,154	10,280	24,895	17,235	91,014	91,014
Development Charges	72,811	117,014	39,907	149,031	922,507	922,507
Reserves & Other Internal Sources	31,096	5,350	5,250	5,250	48,096	48,096
Contribution from Operating	133,353	144,894	157,599	177,683	1,960,083	1,960,083
External Debt	14,892	90,186	79,849	8,355	252,164	252,164
<b>Total</b>	<b>255,306</b>	<b>367,724</b>	<b>307,499</b>	<b>357,554</b>	<b>3,273,863</b>	<b>3,273,863</b>

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Chart 13 illustrates the \$3.27 B capital program for the 2023–2032 water, wastewater and storm capital budget.

**Chart 13**

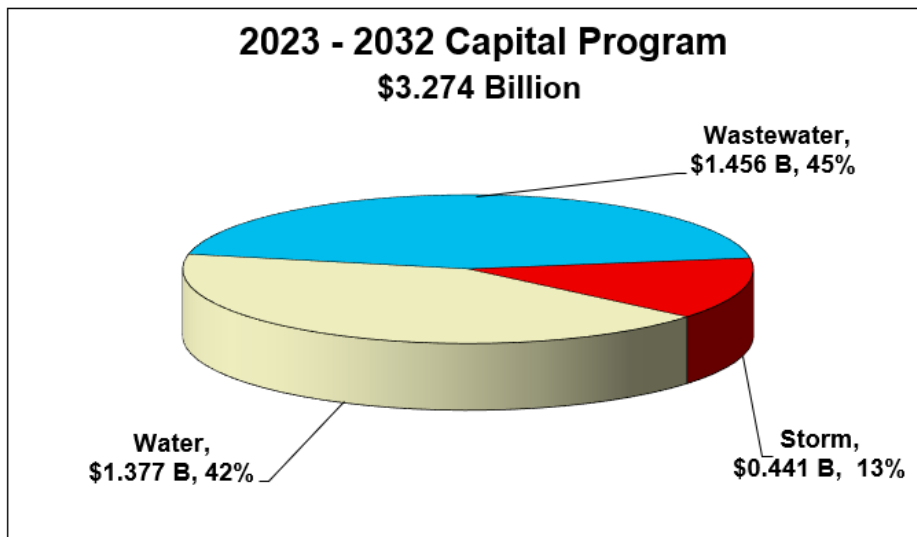
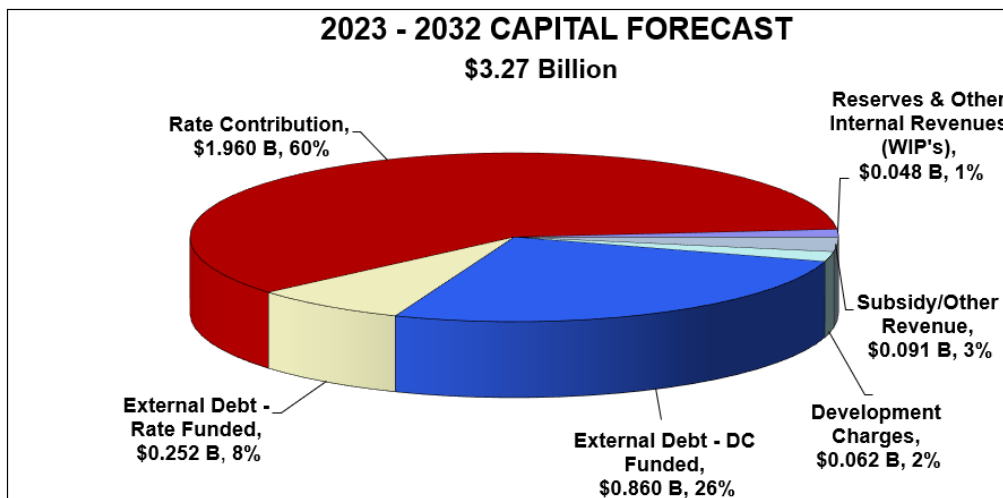


Chart 14 provides the sources of capital financing for the 2023–2032 forecast period. The growth-related infrastructure investment included in the 2023–2032 forecast to accommodate for growth is \$922 M, including \$860 M from DC funded external debt and \$62 M from DCs. Debt charges associated with DC funded debt will be recovered from DCs over the terms of issuance.

The 2023–2032 Capital Forecast includes \$24.0 M in funding from capital work-in-progress (WIP's). The Financing Plan for the 2023-2032 water, wastewater and storm capital program requires a net draw from reserves of \$24.0 M, helping to mitigate reliance on rate supported debt for the delivery of capital works.

**Chart 14**

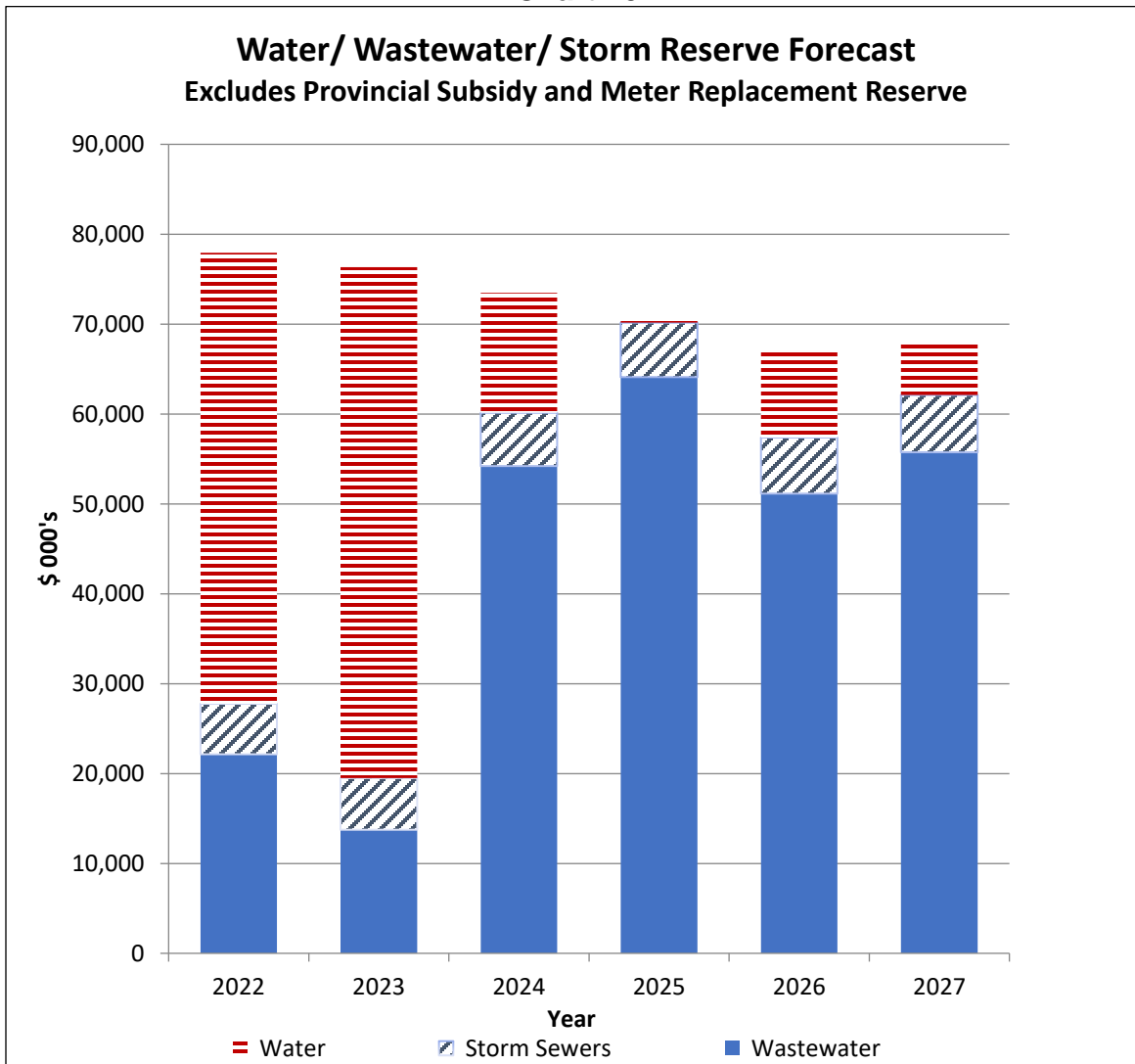


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**Rate Reserves**

Chart 15 provides the projected reserve balances for the Water, Wastewater and Storm programs. The 2023 Budget Forecast reflects utilizing \$4.0 M in reserve funds for the Chedoke Creek project and \$3.0 M for the Water Program. It should be noted, the reserve forecast below does not include the Provincial Wastewater Improvement Subsidy Reserve (\$100 M Provincial subsidy dedicated for the WWTP Clean Harbour project) or the Meter Replacement Reserve. These reserves are not included in the forecast because the funds held in these reserves are required to be spent on specific initiatives and the long-term forecasted balance of these reserves is zero.

**Chart 15**



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Reserves are essential to assist the City in mitigating unanticipated events such as consumption fluctuations, unforeseen increase in capital costs and potentially to provide rate stability or to decrease future debt needs. The proposed Financial Plan leverages the available capacity in the water, wastewater and storm reserves and draws down the reserves to their minimum required balances over the next few years.

The combined reserve balances are forecast to decrease from \$78 M at the end of 2022 to \$68 M in 2027 but increase over the remaining years in the 2028 to 2032 forecast under the proposed Capital Financing Plan. The decrease in reserves coincides with the Chedoke Creek and Cootes Paradise workplan. All three system Reserves are within the target balances relative to the Rate Reserve Policy approved by Council in June 2016.

**Woodward Wastewater Treatment Upgrade and Expansion Project**

The implementation plan for the upgrade and expansion of the WWTP is consistent with the 2022 Rate Budget, in that the plant improvements are forecast using a phased approach. Phase One is for effluent quality improvements and Phase Two is for expansion of the treatment plant to accommodate growth. \$447 M out of the \$456 M total growth component related to Phase Two is in the 2023-2032 Financing Plan. Construction for Phase Two related to expansion is proposed to start in 2026 and be completed in 2029.

The total budget for the WWTP upgrade and expansion has increased by \$153.2 M compared to the 2022 budget forecast. The increase can be attributed to North Secondary Treatment Plant Upgrades and Non-Recoverable HST that was not included in the 2022 budget forecast. In addition to this, the expansion construction costs were updated to reflect current market conditions.

The WWTP expansion project implementation plan has remained unchanged when compared to the 2022 forecast but has been updated with revised cost estimates. It is scheduled to begin construction in 2026 with 100% of the cost funded by DC debt. The levels of debt supported by DCs represent a significant risk if future growth does not materialize as planned. Staff will continue to monitor growth forecasts and DC Revenues over the next four years (2023–2026) and adjust the WWTP expansion project and associated financing plan to align with growth requirements. Staff in both Corporate Services (Finance) and Public Works (Hamilton Water) will closely monitor the need for WWTP expansion, as well as, the forecasted DC Revenue streams needed to pay for such an expansion to mitigate the risk to the ratepayer.

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**Table 5**

<b>Woodward Wastewater Treatment Plant Project - Gross Capital Forecasts</b>												
<b>(\$ Millions)</b>												
		<b>pre</b>										
	<b>Total</b>	<b>2023</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>
<b>2023 Budget</b>												
Phase 1 - Clean Harbour	436.3	424.6	11.7									
Phase 2 - Expansion	456.1	9.5	10.6	10.6	10.6	103.7	103.7	103.7	103.7			
Total WWTP	892.5	434.1	22.3	10.6	10.6	103.7	103.7	103.7	103.7	-	-	-
<b>2022 Budget</b>												
Phase 1 - Clean Harbour	424.6	424.6										
Phase 2 - Expansion	314.7	9.5	4.5	5.7	5.7	98.2	95.5	95.6				
Total WWTP	739.3	434.1	4.5	5.7	5.7	98.2	95.5	95.6	-	-	-	-
<b>Increase (Decrease)</b>												
Phase 1 - Clean Harbour	11.7	0.0	11.7	-	-	-	-	-	-	-	-	-
Phase 2 - Expansion	141.4	-	6.1	4.9	4.9	5.5	8.2	8.1	103.7	-	-	-
Total WWTP	153.2	0.0	17.8	4.9	4.9	5.5	8.2	8.1	103.7	-	-	-

**Chedoke Creek – Cootes Paradise Workplan**

In 2018, the City discovered that one of its combined sewer overflow tanks was discharging combined sewage into Chedoke Creek. The City immediately stopped the discharge, began clean-up activities in the area and contacted the Provincial Spills Action Centre. As a result of the overflow discharge, the City was served an Order by the Ministry of Environment, Conservation and Parks (MECP) outlining several actions required by the City.

The first part of the Order required the City to develop the Chedoke Creek Workplan, which was approved on June 11, 2021 and identified the remedial strategy for targeted dredging in Chedoke Creek. The initial workplan is a living document and subject to change as potential new information is discovered while executing the targeted dredging work.

The second part of the Order required the City to develop the Cootes Paradise Report, which was also approved on June 11, 2021. This Report proposed the remediation and mitigation works to offset the impacts associated with the added nutrient loading to Cootes Paradise and the Western Hamilton Harbour Area that cannot be recovered by dredging Chedoke Creek.

In addition to the Order, City Council directed Hamilton Water staff to meet with Royal Botanical Gardens staff to review potential solutions to Chedoke Creek and report back to the General Issues Committee with their findings. As a result, the Chedoke Creek Water

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Quality Improvement Study was developed and finalized to proactively address some requirements of the order. Contributions from the study were included in the development of the Cootes Paradise Report and subsequently applied in the development of the Cootes Paradise Workplan.

Table 6 details the capital investment that has been included in the 2023-2032 rate supported capital forecast to meet the requirements of the initial Chedoke Creek and Cootes Paradise Workplan with the majority of funding coming from reserves.

**Table 6**

Chedoke Creek - Cootes Paradise Workplan (\$000's)							
	Total	Pre-2023	2023	2024	2025	2026	2027- 2032
Chedoke Creek Water Quality Improvements (CASH FLOWED)	12,450	10,100	1,250	1,100	-	-	
Lower Chedoke Combined EA Study	7,230	280	1,650	1,100	2,100	2,100	
Chedoke Watershed Stormwater Retrofit EA Study	11,980	280	1,100	3,150	3,150	3,150	1,150
<b>Total</b>	<b>31,660</b>	<b>10,660</b>	<b>4,000</b>	<b>5,350</b>	<b>5,250</b>	<b>5,250</b>	<b>1,150</b>

### Woodward Water Treatment Plant

The Woodward Avenue Water Treatment Plant (WTP) is a conventional drinking water treatment plant with a rated capacity of 909 ML/d providing potable water and fire protection. The Plant services over 500,000 people and is the City's only WTP servicing the City of Hamilton's greater urban area, including some communities in Halton Region and Haldimand County. The plant was originally constructed in 1931 and expanded in the late 1950s, with various improvements occurring over the decades. The treatment process includes intake chlorination (for zebra mussel control and pathogen inactivation), screening, pre-chlorination (for pathogen inactivation), coagulation, flocculation, conventional gravity sedimentation, granular activated carbon (GAC) filtration, post-filter chlorination / ammoniation (for residual maintenance by chloramination), fluoridation and corrosion control (for reduction of lead concentrations below regulatory limits).

Over the last several years, Hamilton Water (HW) completed a Best Available Technologies and Feasibility Study (CH2M Hill 2016) and are nearing completion of a Conceptual Design (AECOM 2022) for the WTP Phase 2 Process Upgrades. Concurrently, HW completed the WTP Phase 1 Process Upgrades through a construction project that involved \$25M in large capital maintenance upgrades. The upcoming WTP Phase 2 Process Upgrades are largely focused on increasing capacity output of select processes within the WTP along with critical process and water quality improvements. The project is currently planned to commence a full design assignment in 2024 and a subsequent construction tender from 2027 through 2033. This project is partially supported by DCs.

The recently completed Core Asset Management Plan (2022) including the City of Hamilton's Waterworks identified that the condition of the WTP is rated as four (4) or Poor,

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largely due to the deficiencies that will be addressed by the WTP Phase 2 Process Upgrades.

A 10-year forecasted budget (cash flowed) for the WTP Phase 2 Process Upgrades of \$165 M was included in the 2022 Water, Wastewater and Storm Rate Budget. Recent updated estimates developed during the Conceptual Design are in the order of \$353 M, excluding inflation and contingency. This amount has been included in the 2023-2032 Financing Plan. The estimated increase of \$188 M is a result of increasing project scope including unanticipated treatment improvement requirements reflecting guidance from the Ministry of the Environment, Conservation and Parks (MECP) and changing economic factors.

Currently, the City of Hamilton is undertaking a third-party review of key areas that are deemed critical to the success of this project as part of a due diligence approach, focusing on reviewing: capital costs, staff resourcing, project phasing opportunities and risk analysis of large capital projects concurrently active at the Woodward Avenue site. HW will provide a full report and presentation on the WTP Phase 2 Process Upgrades to the Public Works Committee in 2023.

**Dundas Wastewater Treatment Plant**

Serving the community of Dundas, the Dundas WWTP is a conventional activated sludge facility with nitrification and tertiary filtration, providing a rated capacity of 18,200 m<sup>3</sup>/d and a peak flow capacity of 42,200 m<sup>3</sup>/d. Excess peak flow from the service area is diverted around the facility by an upstream flow diversion structure and pumped eastward where it is treated at the Woodward Avenue WWTP. Treated WWTP effluent is discharged into the Desjardin Canal which is connected to Cootes Paradise, a wetland of notable environmental sensitivity.

As the two main sections of the facility, Plant A and Plant B were constructed in 1962 and 1977, respectively, a major capital upgrade is required to ensure reliable service can continue for the community. A facility upgrade plan completed in 2015 developed a suggested layout and sequence for the capital upgrade and included a high-level cost estimate. The cost estimate for replacement of both plants (A and B) along with ancillary processes in 2013 dollars as noted in the report was \$60.1 M.

Hamilton Water is currently working with a consultant to revise the 2015 facility plan to evaluate newer treatment technologies and determine a suitable layout for the upgraded plant. A revised cost estimate to upgrade the facility will be available following the selection of a proposed solution, anticipated spring 2023. It is assumed based on industry trends that the upgrade costs could be approximately \$139 M in today's dollars. This amount has been included in the 2023-2032 Financing Plan.

These costs will be distributed throughout a multi-year capital upgrade program that will also be identified in the revised facility plan. It is noted that growth potential in the

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community of Dundas is limited in Master Plan growth scenarios resulting in limited to no opportunity for DC revenue for this upgrade.

**Provincial / Federal Subsidy Programs**

The City of Hamilton will be required to pursue future Provincial and Federal intake programs to address the infrastructure gap. The 2023 Water, Wastewater and Storm Budget includes \$0.934 M in Provincial Subsidy Revenues from the Ministry of Environment, Conservation and Parks' Improving Lake Ontario Wastewater and Stormwater Discharges Program. The 2023-2032 capital forecast period includes \$83.8 M in anticipated subsidy revenues from Provincial and Federal subsidy programs. Although the City of Hamilton anticipates future subsidy revenues, there are currently no active Federal or Provincial programs and continued advocacy will be required to secure subsidy funding. It is assumed that funding programs will be available for the Dundas WWTP Replacement in 2024 and 2025, Woodward WWTP - North Digester Complex Rehabilitation in 2025 and 2026 and Woodward WWTP - Primary Clarifiers in years 2026-2032.

**Addressing Climate Change**

City Council declared a climate change emergency in March 2019, at that time, joining 435 municipalities world-wide. Since then, the total number of municipalities has reached more than 800 cities around the world, as well as, the Government of Canada, all acknowledging the scale of the climate crisis and the need for accelerated action.

The City understands declaring a climate emergency is just the beginning. City Council, through its climate emergency declaration, directed staff to form a multi-departmental Corporate Climate Change Task Force (CCCTF). Through the CCCTF, a centralized approach has been created to recommend actions and initiatives that the City is required to take in order to reach the goal of reducing greenhouse gas emissions to net zero before 2050.

A key piece of work is the Community Energy and Emissions Plan, which is a long-term plan to meet Hamilton's future energy needs while improving energy efficiency, reducing greenhouse gas emissions and fostering local sustainable and community-supported energy solutions. Through Report CM22016 / PED22058(a) / HSC22030(a), the City of Hamilton's Community Energy and Emissions Plan was approved by the General Issues Committee on August 8, 2022. That same report also approved the establishment of a Climate Change Advisory Committee of Council and a Climate Change Office with resources located within the Planning and economic Development Department.

**Projected Water / Wastewater / Storm Debt**

The 2023 Water, Wastewater and Storm Budget incorporates a significant reliance on both rate-supported debt and growth-related debt supported from DCs over the 10-year forecast

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period. The forecasted rate supported debt financing for the 10-year period 2023–2032 has increased by \$39 M from the 2022 Rate Budget.

The forecasted DC supported debt financing has increased by approximately \$266 M over the same period, resulting in an overall net increase in forecasted debt financing of \$305 M from the forecast in the 2022 Rate Budget. The increase in reliance on DC supported debt is attributable to the increased cost estimate of the Woodward Wastewater Treatment Plant Expansion, the Woodward Water Treatment Plant Upgrades, and various new projects.

The 10-year capital program relies on a significant amount of debt financing with the associated debt charges funded from both rates and DCs. The rate supported debt is projected to peak at \$424 M in 2026, compared with the 2022 budget forecasted debt peak of \$377 M in 2025. The debt funded from DC's is projected to peak at \$1 B in 2029, whereas the 2022 budget was \$743 M in 2028.

Table 7 provides the multi-year debt forecast compared to the 2022 Budget forecast.

**Table 7**

<b>Projected Rate &amp; DC Supported Outstanding Debt</b>											
<b>(\$ Millions)</b>											
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
<b>2022 Rate Budget</b>											
Funded from Rates	214	250	323	377	347	327	306	288	255	221	191
Funded from DC's	139	251	372	473	586	676	743	707	669	631	591
<b>Total</b>	<b>353</b>	<b>501</b>	<b>695</b>	<b>850</b>	<b>933</b>	<b>1003</b>	<b>1049</b>	<b>995</b>	<b>924</b>	<b>852</b>	<b>782</b>
<b>2023 Rate Budget</b>											
Funded from Rates	125	177	298	400	424	419	407	368	330	291	256
Funded from DC's	3	159	349	458	669	788	906	1007	960	911	861
<b>Total</b>	<b>128</b>	<b>336</b>	<b>647</b>	<b>858</b>	<b>1093</b>	<b>1207</b>	<b>1313</b>	<b>1375</b>	<b>1290</b>	<b>1202</b>	<b>1117</b>
<b>Increase (Decrease)</b>	<b>(225)</b>	<b>(165)</b>	<b>(48)</b>	<b>8</b>	<b>160</b>	<b>204</b>	<b>264</b>	<b>380</b>	<b>366</b>	<b>350</b>	<b>335</b>

Consistent with the 2022 Rate Budget and to more accurately forecast debt levels and the associated debt charges, the major multi-year Treatment Plant projects are budgeted based on the projected cash flow of expenditures for the 2023 Rate Capital Budget, versus full commitment-based budgeting.

Chart 16 compares the total outstanding debt (Rate and DC Funded) from the 2022 Budget forecast to the 2023 Budget forecast. The graph illustrates the lower debt requirements for 2023-2024 when compared to the prior year budget forecast. The decrease in debt is due to deferral of issuing debt in previous years. The higher debt levels in the later years can be attributed to an increase in infrastructure requirements since the 2022 Budget and the timeline of the Wastewater Treatment Plant expansion project which is to be 100% DC debt funded.

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**Chart 16**

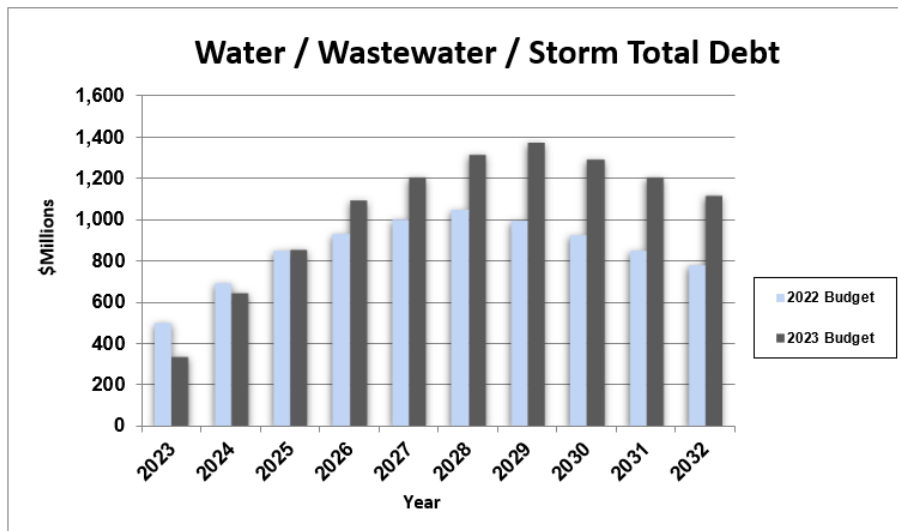


Chart 17 illustrates the projected outstanding debt for the 10-year period (2023–2032) and the funding source of the associated debt charges.

**Chart 17**

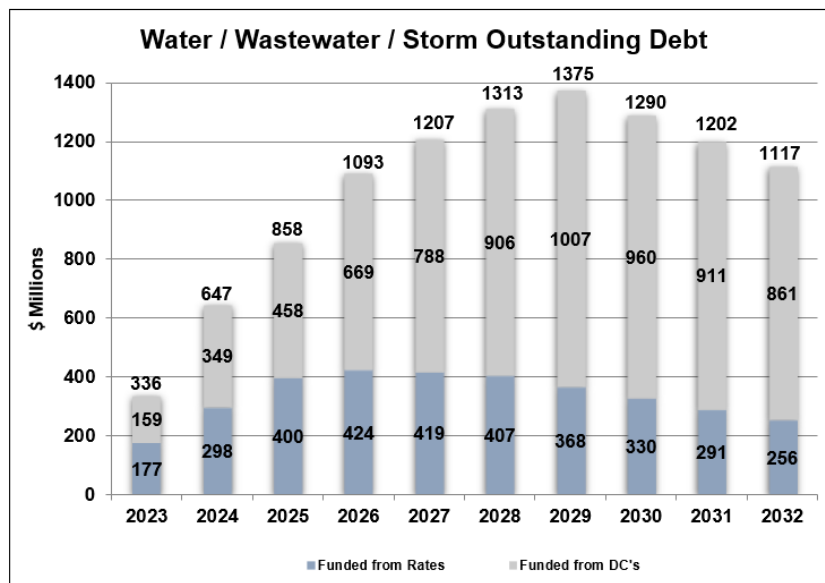


Chart 18 shows the forecasted debt charges funded by water / sewer rates and by DCs. In the upcoming years, staff in Corporate Services (Finance) and in conjunction with staff in Public Works (Hamilton Water) will monitor the forecasted DC Debt charges in comparison to DC Revenue, to mitigate potential risks to the ratepayer. Much of this risk lies with the implementation plan of the WWTP expansion project, currently forecasted for construction in years 2026-2029.

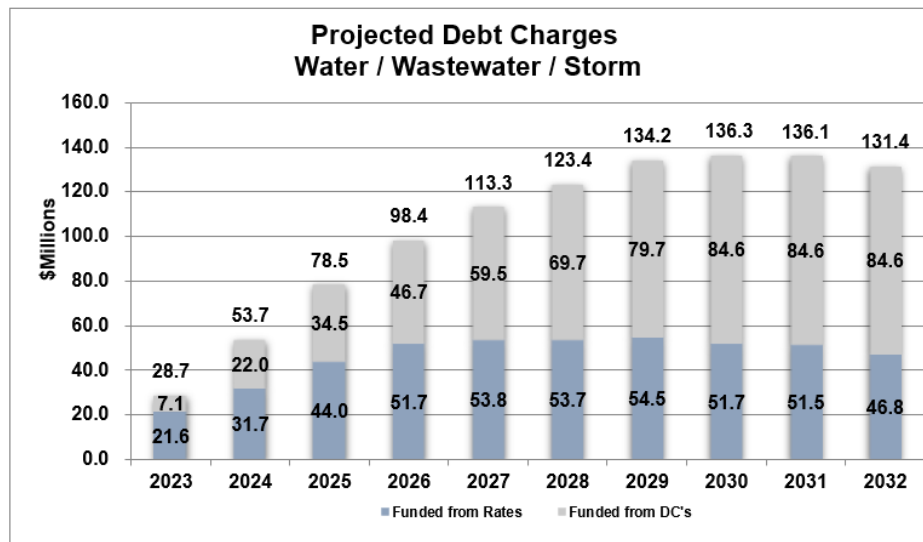
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**Chart 18**



**Impact of Capital Budget on Operating Budget**

As summarized in Table 8, the 2023 Rate Budget incorporates \$163.9 M capital financing costs which is an increase of \$2.5 M from the 2022 Rate budget. The 2022 budgeted debt charges decreased by \$0.8 M, while contribution to capital and DC exemption funding remain the same compared to the 2022 budget.

**Table 8**

<b>WATER, WASTEWATER &amp; STORM IMPACT OF CAPITAL ON OPERATING BUDGET (000's)</b>					
	<b>2022 APPROVED</b>	<b>2023 PROPOSED</b>	<b>CHANGE</b>		<b>2023 - 2032 FORECAST</b>
			<b>\$</b>	<b>%</b>	
<b>Debt to be Issued</b>	<b>49,100</b>	<b>14,892</b>	<b>(34,208)</b>	<b>-69.7%</b>	<b>252,164</b>
<b>Debt Charges (Net of DCs)</b>	<b>22,349</b>	<b>21,581</b>	<b>(768)</b>	<b>-3.4%</b>	<b>460,971</b>
<b>Contribution to Capital</b>	<b>125,089</b>	<b>133,353</b>	<b>8,264</b>	<b>6.6%</b>	<b>1,960,083</b>
<b>DC Exemption Funding</b>	<b>9,000</b>	<b>9,000</b>	<b>0</b>	<b>0.0%</b>	<b>90,000</b>
<b>Impact on Operating Budget</b>	<b>156,438</b>	<b>163,934</b>	<b>7,497</b>	<b>4.8%</b>	<b>2,511,053</b>

Chart 19 highlights the impact on the operating budget from the Rate Supported Capital program. These impacts are projected to increase from \$164 M in 2023 to \$269 M in 2032. Rate supported debt charges are expected to increase from 13.2% of total revenues in 2023 to 21.7% in 2026 and then decline to 17.4% in 2031.

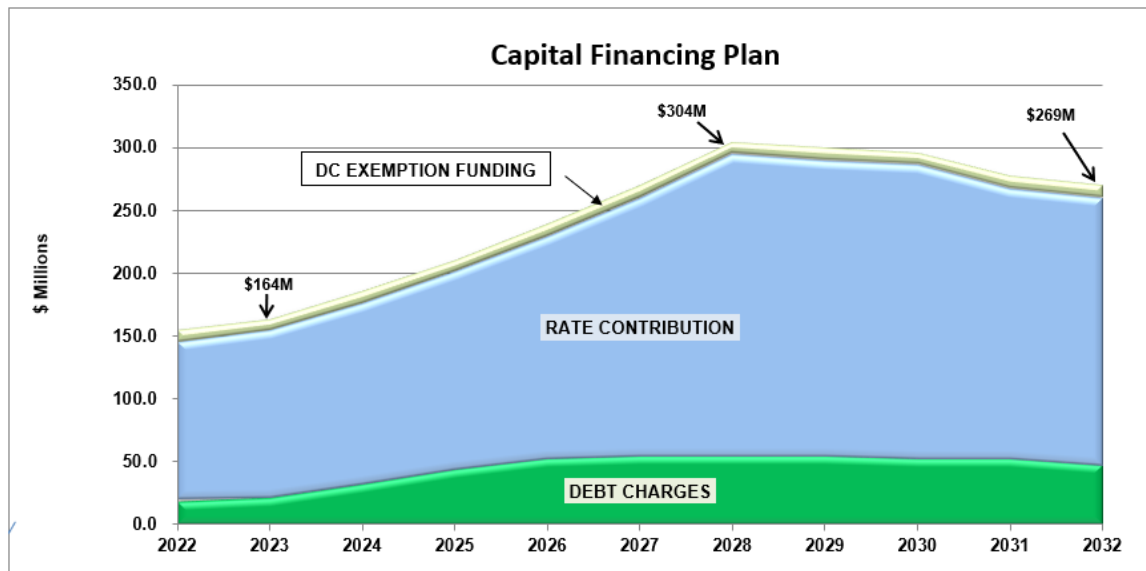
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**Chart 19**



### Debt Management

According to Ontario Regulation 403/02, Council shall, before giving authorization for capital work that would require a long-term debt or financial obligation, have the City Treasurer calculate an updated Annual Repayment Limit (ARL) using the most recent Annual Repayment Limit determined by the Ministry. The most recent ARL, determined and sent in writing by the Ministry to the City Treasurer, is the 2022 ARL in the amount of \$293,261,529 and is based on 2020 Financial Information Returns.

Using this 2022 ARL, the City Treasurer has calculated an updated ARL of \$174,199,608, shown in Appendix “T” to Report FCS22054. The 2022 ARL was adjusted for possible debt service charges of \$119,061,921 corresponding to approximately \$1.18 B of debt (including City Housing Hamilton), which has been approved by Council in 2022 and prior years but not yet issued. Further adjustments were made to reflect debt service charges both for prior issued debt discharged since 2020.

According to this calculation, the updated ARL of \$174,199,608, represents a maximum annual amount that the City has available to commit to payments related to debt and financial obligations before the statutory limit is breached and corresponds to approximately \$1.7 B of additional borrowing which the City could undertake (assuming a 15-year term and 5.5% interest rate). The related tax and rate impacts would be considered before approving debt within these limits.

In addition, City Council has approved a total combined tax and rate-supported debt limit of 60% of City Own-Source revenues, unless otherwise approved by Council and a DC supported debt limit of 25% of total DC eligible costs for the forecast period of the latest DC Background Study, unless otherwise approved by Council. The City’s current debt ratio is forecasted to be 17.8% in 2022 and 18.0% in 2023 related to the approved tax and

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rate supported upset limit of 60% and 1.0% in 2022 and 1.5% in 2023 for DC supported debt relative to the upset limit of 25%.

However, over \$1B in capital works in progress have been approved for debt funding that has not yet been issued due to timing of completion and cash flow requirements. Given the amount of debt that has been previously approved and the reliance on debt financing for infrastructure improvements needed in the 10-year Rate Financing Plan, the City will exceed Council's approved DC supported debt limit in 2026 and utilize the majority of debt capacity within the approved tax and rate limit over the next few years. Finance staff will continue to monitor cash flow requirements and only issue debt when needed, but there may be a requirement to revisit Council's approved debt policy in the near future. Staff will minimize the risk associated with DC debt by ensuring that any growth-related debt principal and interest are forecasted to be covered by future growth projections.

### **ALTERNATIVES FOR CONSIDERATION**

Beyond the recommended rate increase, Council can direct staff to submit for Council consideration changes to this budget submission that would require a review of the 2023 Capital and Operating Budget submissions.

### **ALIGNMENT TO THE 2016 – 2025 STRATEGIC PLAN**

#### **Economic Prosperity and Growth**

*Hamilton has* a prosperous and diverse local economy where people have opportunities to grow and develop.

#### **Healthy and Safe Communities**

*Hamilton is* a safe and supportive city where people are active, healthy, and have a high quality of life.

#### **Clean and Green**

*Hamilton is* environmentally sustainable with a healthy balance of natural and urban spaces.

#### **Built Environment and Infrastructure**

*Hamilton is* supported by state of the art infrastructure, transportation options, buildings and public spaces that create a dynamic City.

#### **Our People and Performance**

*Hamiltonians have* a high level of trust and confidence in their City government.

### **APPENDICES AND SCHEDULES ATTACHED**

Appendix "A" to Report FCS22054 – 2023 Hamilton Water, Wastewater and Storm Operating Budget – Combined Water, Wastewater and Storm

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Appendix “B” to Report FCS22054 – 2023 Hamilton Water Operating Budget – Water

Appendix “C” to Report FCS22054 – 2023 Hamilton Wastewater and Storm Operating Budget – Combined Wastewater and Storm

Appendix “D” to Report FCS22054 – 2023 Hamilton Wastewater and Storm Operating Budget – Wastewater

Appendix “E” to Report FCS22054 – 2023 Hamilton Wastewater and Storm Operating Budget – Storm

Appendix “F” to Report FCS22054 – Hamilton Water – 2023 Rate Supported Staffing Summary and 2023 Rate Budget – Business Case Summary – Public Works

Appendix “G” to Report FCS22054 – 2023 Water and Wastewater / Storm Fees and Charges, Effective January 1, 2023 – 2023 Private Fire Line Rates – 2023 Proposed User Fees and Charges

Appendix “H” to Report FCS22054 – Source of Capital Financing – 2023 to 2032 Rate Program Capital Budget

Appendix “I” to Report FCS22054 – 2023 to 2032 Water / Wastewater / Storm Capital Financing Plan

Appendix “J” to Report FCS22054 – Source of Capital Financing – 2023 to 2032 Rate Program Capital Budget – Water

Appendix “K” to Report FCS22054 – Water System – 2023 Capital Budget Project List

Appendix “L” to Report FCS22054 – Water System – 2023 to 2032 Capital Budget List

Appendix “M” to Report FCS22054 – Source of Capital Financing – 2023 to 2032 Rate Program Capital Budget – Wastewater

Appendix “N” to Report FCS22054 – Wastewater System – 2023 Capital Budget Project List

Appendix “O” to Report FCS22054 – Wastewater System – 2023 to 2032 Capital Budget List

Appendix “P” to Report FCS22054 – Source of Capital Financing – 2023 to 2032 Rate Program Capital Budget – Storm Sewers

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Appendix “Q” to Report FCS22054 – Storm Water Management – 2023 Capital Budget Project List

Appendix “R” to Report FCS22054 – Storm Water Management – 2023 to 2032 Capital Budget List

Appendix “S” to Report FCS22054 – 2023 Rate Program Capital Budget Summary

Appendix “T” to Report FCS22054 – City of Hamilton Treasurer’s Updated 2022 Annual Repayment Limit

Appendix “U” to Report FCS22054 – New Development Water Customer Attachment Billing Policy

KB/dt

2023 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

**COMBINED WATER, WASTEWATER AND STORM**

	2022 RESTATED BUDGET	2022 PROJECTED ACTUAL	2023 REQUESTED BUDGET	CHANGE		CHANGE	
				2022 PROJECTED ACTUAL / 2022 RESTATED BUDGET	%	2023 REQUESTED / 2022 RESTATED BUDGET	%
<u>OPERATING EXPENDITURES:</u>	\$	\$	\$	\$	%	\$	%
Divisional Administration & Support	10,837,693	10,837,693	11,498,313	-	0.0%	660,620	6.1%
Woodward Upgrades	1,764,829	1,764,829	1,953,429	-	0.0%	188,600	10.7%
Customer Service & Community Outreach	6,175,547	5,824,933	6,923,785	350,614	5.7%	748,238	12.1%
Compliance & Regulations	7,242,170	7,242,170	7,843,466	-	0.0%	601,296	8.3%
Water Distribution & Wastewater Collection	24,122,428	24,122,428	24,239,426	-	0.0%	116,998	0.5%
Plant Operations	29,909,180	32,065,142	35,866,472	(2,155,962)	(7.2%)	5,957,292	19.9%
Plant Maintenance	11,708,771	11,572,232	12,563,094	136,539	1.2%	854,323	7.3%
Capital Planning & Delivery	4,927,514	4,927,514	5,306,737	-	0.0%	379,223	7.7%
Watershed Management	1,282,313	1,282,313	1,642,718	-	0.0%	360,405	28.1%
Wastewater Abatement Program	1,142,450	1,142,450	1,142,465	-	0.0%	15	0.0%
Alectra Utilities Service Contract	5,826,240	5,826,240	6,010,198	-	0.0%	183,958	3.2%
Utilities Arrears Program	500,320	500,320	500,328	-	0.0%	8	0.0%
Sewer Lateral Management Program	300,000	300,000	325,000	-	0.0%	25,000	8.3%
Hamilton Harbour Remedial Action Plan	578,964	578,964	604,011	-	0.0%	25,047	4.3%
Protective Plumbing Program (3P)	752,870	623,928	752,938	128,942	17.1%	68	0.0%
Financial Charges	86,020	86,020	86,118	-	0.0%	98	0.1%
	107,157,309	108,697,176	117,258,498	(1,539,867)	(1.4%)	10,101,189	9.4%
Capital and Reserve Recoveries	(8,746,180)	(8,746,180)	(8,746,180)	-	0.0%	-	0.0%
<b>Sub-Total</b>	<b>98,411,129</b>	<b>99,950,996</b>	<b>108,512,318</b>	<b>(1,539,867)</b>	<b>(1.6%)</b>	<b>10,101,189</b>	<b>10.3%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Water Quality Initiatives	39,539,500	38,859,500	64,300,080	680,000	1.7%	24,760,580	62.6%
Wastewater	73,784,138	74,124,138	54,231,042	(340,000)	(0.5%)	(19,553,096)	(26.5%)
Stormwater	11,765,000	12,105,000	14,822,000	(340,000)	(2.9%)	3,057,000	26.0%
<b>Sub-Total Contributions to Capital</b>	<b>125,088,638</b>	<b>125,088,638</b>	<b>133,353,122</b>	<b>-</b>	<b>0.0%</b>	<b>8,264,484</b>	<b>6.6%</b>



## 2023 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

## COMBINED WATER, WASTEWATER AND STORM

	2022	2022	2023	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2022 PROJECTED ACTUAL / 2022 RESTATED BUDGET	%	2023 REQUESTED / 2022 RESTATED BUDGET	%
	\$	\$	\$	\$	%	\$	%
<b>Contributions for DC Exemptions</b>							
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%
Wastewater	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%
Stormwater	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b>Capital Debt Charges</b>							
Water Quality Initiatives	11,068,076	8,153,554	11,694,759	2,914,522	26.3%	626,684	5.7%
Wastewater	12,881,726	7,968,426	13,229,466	4,913,300	38.1%	347,740	2.7%
Stormwater	3,584,490	2,969,443	3,780,708	615,047	17.2%	196,218	5.5%
DC Debt Charges Recoveries	(5,185,120)	(523,692)	(7,123,627)	(4,661,428)	89.9%	(1,938,507)	37.4%
<b>Sub-Total Debt Charges</b>	<b>22,349,172</b>	<b>18,567,731</b>	<b>21,581,306</b>	<b>3,781,441</b>	<b>16.9%</b>	<b>(767,865)</b>	<b>(3.4%)</b>
<b>Sub-Total Capital Financing</b>	<b>156,437,810</b>	<b>152,656,369</b>	<b>163,934,428</b>	<b>3,781,441</b>	<b>2.4%</b>	<b>7,496,619</b>	<b>4.8%</b>
<b>Reserve Transfers</b>	<b>3,001,970</b>	<b>2,823,671</b>	<b>-</b>	<b>178,299</b>	<b>5.9%</b>	<b>(3,001,970)</b>	<b>(100.0%)</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>159,439,780</b>	<b>155,480,040</b>	<b>163,934,428</b>	<b>3,959,740</b>	<b>2.5%</b>	<b>4,494,649</b>	<b>2.8%</b>
<b>TOTAL EXPENDITURES</b>	<b>257,850,909</b>	<b>255,431,036</b>	<b>272,446,747</b>	<b>2,419,873</b>	<b>0.9%</b>	<b>14,595,838</b>	<b>5.7%</b>
<b>REVENUES:</b>							
<b>Rate Revenue</b>							
Residential	113,919,774	113,919,774	121,736,239	-	0.0%	7,816,464	6.9%
Industrial/Commercial/Institutional/Multi-res	123,323,962	119,323,962	128,334,602	(4,000,000)	(3.2%)	5,010,640	4.1%
Haldimand	2,834,077	3,334,077	3,606,687	500,000	17.6%	772,610	27.3%
Halton	282,409	332,409	310,553	50,000	17.7%	28,144	10.0%
Raw Water	105,000	181,376	190,100	76,376	72.7%	85,100	81.0%
Non-Metered	825,000	825,000	1,100,000	-	0.0%	275,000	33.3%
Private Fire Lines	1,980,000	1,880,000	1,800,000	(100,000)	(5.1%)	(180,000)	(9.1%)
Hauler / 3rd Party Sales	1,820,000	2,120,000	1,892,800	300,000	16.5%	72,800	4.0%
Overstrength Agreements	3,306,825	2,524,414	3,439,098	(782,411)	(23.7%)	132,273	4.0%
Sewer Surcharge Agreements	6,511,190	8,047,351	7,005,322	1,536,161	23.6%	494,132	7.6%
<b>Sub-Total Utility Rates</b>	<b>254,908,237</b>	<b>252,488,364</b>	<b>269,415,402</b>	<b>(2,419,873)</b>	<b>(0.9%)</b>	<b>14,507,164</b>	<b>5.7%</b>

2023 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

**COMBINED WATER, WASTEWATER AND STORM**

	2022 RESTATED BUDGET	2022 PROJECTED ACTUAL	2023 REQUESTED BUDGET	CHANGE 2022 PROJECTED ACTUAL / 2022 RESTATED BUDGET		CHANGE 2023 REQUESTED / 2022 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b>Non-Rate Revenue</b>							
Local Improvement Recoveries	275,850	275,850	275,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	1,107,652	1,107,652	1,151,958	-	0.0%	44,306	4.0%
Investment Income	450,000	450,000	450,000	-	0.0%	-	0.0%
General Fees and Recoveries	1,109,170	1,109,170	1,153,537	-	0.0%	44,367	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>2,942,672</b>	<b>2,942,672</b>	<b>3,031,345</b>	<b>-</b>	<b>0.0%</b>	<b>88,673</b>	<b>3.0%</b>
<b>TOTAL REVENUES</b>	<b>257,850,909</b>	<b>255,431,036</b>	<b>272,446,747</b>	<b>(2,419,873)</b>	<b>(0.9%)</b>	<b>14,595,838</b>	<b>5.7%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2023 - 2026 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WATER, WASTEWATER AND STORM**

	2022 RESTATE D BUDGET	2023 REQUESTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	2026 PROJECTED BUDGET	CHANGE 2023 REQUESTED / 2022 RESTATED BUDGET	CHANGE 2024 PROJECTED / 2023 REQUESTED BUDGET	CHANGE 2025 PROJECTED / 2024 PROJECTED BUDGET				
	\$	\$	\$	\$	\$	\$ %	\$ %	\$ %				
<b>OPERATING EXPENDITURES:</b>												
Divisional Administration & Support	10,837,693	11,498,313	11,958,246	12,436,576	12,934,039	660,620 6.1%	459,933 4.0%	478,330 4.0%				
Woodward Upgrades	1,764,829	1,953,429	2,031,566	2,112,828	2,197,342	188,600 10.7%	78,137 4.0%	81,263 4.0%				
Customer Service & Community Outreach	6,175,547	6,923,785	7,217,828	7,506,541	7,806,803	748,238 12.1%	294,043 4.2%	288,713 4.0%				
Compliance & Regulations	7,242,170	7,843,466	8,210,923	8,539,360	8,880,934	601,296 8.3%	367,457 4.7%	328,437 4.0%				
Water Distribution & Wastewater Collection	24,122,428	24,239,426	25,287,726	26,299,235	27,351,205	116,998 0.5%	1,048,301 4.3%	1,011,509 4.0%				
Plant Operations	29,909,180	35,866,472	37,328,784	38,821,935	40,374,812	5,957,292 19.9%	1,462,312 4.1%	1,493,151 4.0%				
Plant Maintenance	11,708,771	12,563,094	13,065,618	13,588,243	14,131,773	854,323 7.3%	502,524 4.0%	522,625 4.0%				
Capital Planning & Delivery	4,927,514	5,306,737	5,519,007	5,739,767	5,969,358	379,223 7.7%	212,269 4.0%	220,760 4.0%				
Watershed Management	1,282,313	1,642,718	1,744,007	1,813,767	1,886,318	360,405 28.1%	101,288 6.2%	69,760 4.0%				
Wastewater Abatement Program	1,142,450	1,142,465	1,188,163	1,235,690	1,285,117	15 0.0%	45,699 4.0%	47,527 4.0%				
Alectra Utilities Service Contract	5,826,240	6,010,198	6,250,606	6,500,630	6,760,655	183,958 3.2%	240,408 4.0%	250,024 4.0%				
Utilities Arrears Program	500,320	500,328	520,341	541,155	562,801	8 0.0%	20,013 4.0%	20,814 4.0%				
Sewer Lateral Management Program	300,000	325,000	338,000	351,520	365,581	25,000 8.3%	13,000 4.0%	13,520 4.0%				
Hamilton Harbour Remedial Action Plan	578,964	604,011	628,172	653,299	679,430	25,047 4.3%	24,160 4.0%	25,127 4.0%				
Protective Plumbing Program (3P)	752,870	752,938	783,055	814,377	846,952	68 0.0%	30,118 4.0%	31,322 4.0%				
Financial Charges	86,020	86,118	89,563	93,146	96,872	98 0.1%	3,445 4.0%	3,583 4.0%				
	107,157,309	117,258,498	122,161,605	127,048,069	132,129,992	10,101,189 9.4%	4,903,107 4.2%	4,886,464 4.0%				
Capital and Reserve Recoveries	(8,746,180)	(8,746,180)	(9,096,027)	(9,459,868)	(9,838,263)	- 0.0%	(349,847) 4.0%	(363,841) 4.0%				
Stormwater	3,584,490	3,780,708	3,780,070	10,341,583	11,718,636	196,218 5.5%	3,239,362 85.7%	3,321,514 47.3%				
DC Debt Charges Recoveries	(5,185,120)	(7,123,627)	(22,010,011)	(34,528,940)	(46,660,543)	(1,938,507) 37.4%	(14,886,384) 209.0%	(12,518,929) 56.9%				
<b>Reserve Transfers</b>	3,001,970	-	-	-	-	(3,001,970) (100.0%)	- 0.0%	- 0.0%				
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>159,439,780</b>	<b>163,934,428</b>	<b>185,580,949</b>	<b>210,565,584</b>	<b>238,371,055</b>	<b>4,494,649 2.8%</b>	<b>21,646,521 13.2%</b>	<b>24,984,635 13.5%</b>				
<b>TOTAL EXPENDITURES</b>	<b>257,850,909</b>	<b>272,446,747</b>	<b>298,646,527</b>	<b>328,153,785</b>	<b>360,662,784</b>	<b>14,595,838 5.7%</b>	<b>26,199,780 9.6%</b>	<b>29,507,258 9.9%</b>				
<b>REVENUES:</b>												
<b>Rate Revenue</b>												
Residential	113,919,774	121,736,239	134,768,141	149,015,458	164,892,896	7,816,464 6.9%	13,031,902 10.7%	14,247,317 10.6%				
Industrial/Commercial/Institutional/Multi-res	123,323,962	128,334,602	140,468,199	154,575,013	169,997,147	5,010,640 4.1%	12,133,598 9.5%	14,106,814 10.0%				
Haldimand	2,834,077	3,606,687	3,914,375	4,308,520	4,726,449	772,610 27.3%	307,687 8.5%	394,145 10.1%				
Halton	282,409	310,553	338,834	371,900	408,787	28,144 10.0%	28,281 9.1%	33,066 9.8%				
Raw Water	105,000	190,100	197,704	205,612	213,837	85,100 81.0%	7,604 4.0%	7,908 4.0%				
Non-Metered	825,000	1,100,000	1,133,000	1,166,990	1,202,000	275,000 33.3%	33,000 3.0%	33,990 3.0%				
Private Fire Lines	1,980,000	1,800,000	1,872,000	1,946,880	2,024,755	(180,000) (9.1%)	72,000 4.0%	74,880 4.0%				
Hauler / 3rd Party Sales	1,820,000	1,892,800	1,968,512	2,047,252	2,129,143	72,800 4.0%	75,712 4.0%	78,740 4.0%				
Overstrength Agreements	3,306,825	3,439,098	3,576,662	3,719,729	3,868,518	132,273 4.0%	137,564 4.0%	143,066 4.0%				
Sewer Surcharge Agreements	6,511,190	7,005,322	7,285,535	7,576,957	7,880,035	494,132 7.6%	280,213 4.0%	291,421 4.0%				
<b>Sub-Total Utility Rates</b>	<b>254,908,237</b>	<b>269,415,402</b>	<b>295,522,962</b>	<b>324,934,311</b>	<b>357,343,566</b>	<b>14,507,164 5.7%</b>	<b>26,107,560 9.7%</b>	<b>29,411,349 10.0%</b>				
<b>Non-Rate Revenue</b>												
Local Improvement Recoveries	275,850	275,850	275,850	275,850	275,850	- 0.0%	- 0.0%	- 0.0%				
Permits / Leases / Agreements	1,107,652	1,151,958	1,198,036	1,245,958	1,295,796	44,306 4.0%	46,078 4.0%	47,921 4.0%				
Investment Income	450,000	450,000	450,000	450,000	450,000	- 0.0%	- 0.0%	- 0.0%				
General Fees and Recoveries	1,109,170	1,153,537	1,199,679	1,247,666	1,297,572	44,367 4.0%	46,141 4.0%	47,987 4.0%				
<b>Sub-Total Non-Rate Revenue</b>	<b>2,942,672</b>	<b>3,031,345</b>	<b>3,123,565</b>	<b>3,219,474</b>	<b>3,319,219</b>	<b>88,673 3.0%</b>	<b>92,220 3.0%</b>	<b>95,909 3.1%</b>				
<b>TOTAL REVENUES</b>	<b>257,850,909</b>	<b>272,446,747</b>	<b>298,646,527</b>	<b>328,153,785</b>	<b>360,662,784</b>	<b>14,595,838 5.7%</b>	<b>26,199,780 9.6%</b>	<b>29,507,258 9.9%</b>				
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>- 0.0%</b>	<b>- 0.0%</b>				

**CITY OF HAMILTON**  
**2023-2032 HAMILTON WATER, WASTEWATER & STORM OPERATING BUDGET**  
**COMBINED WATER, WASTEWATER AND STORM**  
**(\$ 000'S)**

	2022 Restated	2023 Requested	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast	2032 Forecast
<b>OPERATING EXPENDITURES</b>											
OPERATING COSTS	98,411	108,512	113,066	117,588	122,292	127,183	132,068	137,522	142,426	147,912	153,613
<b>TOTAL OPERATING COSTS</b>	<b>98,411</b>	<b>108,512</b>	<b>113,066</b>	<b>117,588</b>	<b>122,292</b>	<b>127,183</b>	<b>132,068</b>	<b>137,522</b>	<b>142,426</b>	<b>147,912</b>	<b>153,613</b>
<b>CAPITAL &amp; RESERVE IMPACTS ON OPERATING</b>											
<b>Contributions to Capital</b>											
Water	39,540	64,300	121,988	101,188	90,681	119,216	126,020	118,597	102,485	89,211	92,346
Wastewater	73,784	54,231	3,442	35,614	69,663	46,792	65,886	71,411	102,445	94,281	89,156
Stormwater	11,765	14,822	19,464	20,796	17,339	40,197	49,061	45,615	29,685	32,453	31,695
<b>Sub-total Contributions to Capital</b>	<b>125,089</b>	<b>133,353</b>	<b>144,894</b>	<b>157,599</b>	<b>177,683</b>	<b>206,204</b>	<b>240,967</b>	<b>235,624</b>	<b>234,615</b>	<b>215,945</b>	<b>213,197</b>
<b>Contributions for DC Exemptions</b>											
Water	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Wastewater	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590
Stormwater	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
<b>Sub-total Contributions to Capital</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>
<b>Debt Charges</b>											
Water	11,068	11,695	18,585	24,224	29,526	32,823	34,857	37,782	37,649	37,573	35,935
Wastewater	12,882	13,229	28,091	43,931	57,104	68,029	75,523	83,239	85,534	85,474	82,923
Stormwater	3,584	3,781	7,020	10,342	11,719	12,508	13,032	13,219	13,129	13,069	12,554
DC Debt Charges Recoveries	(5,185)	(7,124)	(22,010)	(34,529)	(46,661)	(59,528)	(69,706)	(79,746)	(84,594)	(84,620)	(84,611)
<b>Sub-total Debt Charges</b>	<b>22,349</b>	<b>21,581</b>	<b>31,687</b>	<b>43,967</b>	<b>51,688</b>	<b>53,832</b>	<b>53,707</b>	<b>54,494</b>	<b>51,718</b>	<b>51,495</b>	<b>46,802</b>
<b>Reserve Transfers</b>	<b>3,002</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>42,230</b>	<b>88,707</b>	<b>154,357</b>	<b>214,849</b>
<b>Sub-Total Capital &amp; Reserve Impacts on Operating</b>	<b>159,440</b>	<b>163,934</b>	<b>185,581</b>	<b>210,566</b>	<b>238,371</b>	<b>269,037</b>	<b>303,674</b>	<b>341,348</b>	<b>384,040</b>	<b>430,797</b>	<b>483,848</b>
<b>TOTAL EXPENDITURES</b>	<b>257,851</b>	<b>272,447</b>	<b>298,647</b>	<b>328,154</b>	<b>360,663</b>	<b>396,220</b>	<b>435,742</b>	<b>478,869</b>	<b>526,467</b>	<b>578,709</b>	<b>637,461</b>
<b>REVENUES</b>											
Residential	113,920	121,736	134,768	149,015	164,893	182,514	202,038	223,296	247,135	273,354	302,222
Industrial/Commercial/Institutional/Multi-res	123,324	128,335	140,468	154,575	169,997	186,670	205,249	225,693	247,947	272,315	300,386
Haldimand	2,834	3,607	3,914	4,309	4,726	5,167	5,723	6,255	6,828	7,508	8,300
Halton	282	311	339	372	409	447	494	540	591	650	719
Raw Water	105	190	198	206	214	222	231	241	250	260	271
Non-Metered	825	1,100	1,133	1,167	1,202	1,238	1,275	1,313	1,353	1,393	1,435
Private Fire Lines	1,980	1,800	1,872	1,947	2,025	2,106	2,190	2,278	2,369	2,463	2,562
Hauler / 3rd Party Sales	1,820	1,893	1,969	2,047	2,129	2,214	2,303	2,395	2,491	2,590	2,694
Overstrength Agreements	3,307	3,439	3,577	3,720	3,869	4,023	4,184	4,352	4,526	4,707	4,895
Sewer Surcharge Agreements	6,511	7,005	7,286	7,577	7,880	8,195	8,523	8,864	9,219	9,587	9,971
Non-Rate Revenue	2,943	3,031	3,124	3,219	3,319	3,423	3,531	3,643	3,760	3,881	4,007
<b>TOTAL REVENUES</b>	<b>257,851</b>	<b>272,447</b>	<b>298,647</b>	<b>328,154</b>	<b>360,663</b>	<b>396,220</b>	<b>435,742</b>	<b>478,869</b>	<b>526,467</b>	<b>578,709</b>	<b>637,461</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Rate Increase</b>	<b>4.98%</b>	<b>6.49%</b>	<b>10.04%</b>	<b>9.95%</b>	<b>10.04%</b>	<b>10.06%</b>	<b>10.07%</b>	<b>9.92%</b>	<b>10.06%</b>	<b>9.99%</b>	<b>9.99%</b>
<b>RESIDENTIAL BILL (200m<sup>3</sup> p.a.)</b>	<b>\$ 823.85</b>	<b>\$ 877.30</b>	<b>\$ 965.40</b>	<b>\$ 1,061.50</b>	<b>\$ 1,168.05</b>	<b>\$ 1,285.50</b>	<b>\$ 1,415.00</b>	<b>\$ 1,555.35</b>	<b>\$ 1,711.80</b>	<b>\$ 1,882.75</b>	<b>\$ 2,070.85</b>

**CITY OF HAMILTON**  
**2023 HAMILTON WATER OPERATING BUDGET**  
**WATER**

	2022	2022	2023	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2022 PROJECTED ACTUAL / 2022 RESTATED BUDGET	2023 REQUESTED / 2022 RESTATED BUDGET	2023 REQUESTED / 2022 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
Divisional Administration & Support	5,299,640	5,299,639	5,622,683	1	0.0%	323,043	6.1%
Woodward Upgrades	850,260	850,260	941,124	-	0.0%	90,864	10.7%
Customer Service & Community Outreach	3,125,775	2,948,310	3,504,498	177,464	5.7%	378,723	12.1%
Compliance & Regulations	1,670,594	1,670,594	1,809,298	-	0.0%	138,704	8.3%
Water Distribution & Wastewater Collection	15,319,753	15,319,753	15,394,056	-	0.0%	74,303	0.5%
Plant Operations	14,413,437	15,452,410	17,284,297	(1,038,973)	(7.2%)	2,870,859	19.9%
Plant Maintenance	5,854,386	5,786,116	6,281,547	68,270	1.2%	427,162	7.3%
Capital Planning & Delivery	2,217,381	2,217,381	2,388,032	-	0.0%	170,650	7.7%
Watershed Management	-	-	-	-	0.0%	-	0.0%
Wastewater Abatement Program	-	-	-	-	0.0%	-	0.0%
Alectra Utilities Service Contract	2,913,120	2,913,120	3,005,099	-	0.0%	91,979	3.2%
Utilities Arrears Program	250,160	250,160	250,164	-	0.0%	4	0.0%
Sewer Lateral Management Program	-	-	-	-	0.0%	-	0.0%
Hamilton Harbour Remedial Action Plan	-	-	-	-	0.0%	-	0.0%
Protective Plumbing Program (3P)	-	-	-	-	0.0%	-	0.0%
Financial Charges	-	-	-	-	0.0%	-	0.0%
	51,914,506	52,707,743	56,480,798	(793,237)	(1.5%)	4,566,292	8.8%
Capital and Reserve Recoveries	(3,554,918)	(3,554,918)	(3,554,918)	-	0.0%	-	0.0%
<b>Sub-Total</b>	<b>\$ 48,359,587</b>	<b>\$ 49,152,825</b>	<b>\$ 52,925,880</b>	<b>\$ (793,237)</b>	<b>(1.6%)</b>	<b>\$ 4,566,292</b>	<b>9.4%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Water Quality Initiatives	39,539,500	38,859,500	64,300,080	680,000	1.7%	24,760,580	62.6%
Wastewater	-	-	-	-	-	-	-
Stormwater	-	-	-	-	-	-	-
<b>Sub-Total Contributions to Capital</b>	<b>39,539,500</b>	<b>38,859,500</b>	<b>64,300,080</b>	<b>680,000</b>	<b>1.7%</b>	<b>24,760,580</b>	<b>62.6%</b>
<b><u>Contributions for DC Exemptions</u></b>							
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%
Wastewater	-	-	-	-	-	-	-
Stormwater	-	-	-	-	-	-	-
<b>Sub-Total Contributions for DC Exemptions</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2023 HAMILTON WATER OPERATING BUDGET**  
**WATER**

	2022	2022	2023	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2022 PROJECTED ACTUAL / 2022 RESTATED BUDGET	2023 REQUESTED / 2022 RESTATED BUDGET	2023 REQUESTED / 2022 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b>Debt Charges</b>							
Water Quality Initiatives	11,068,076	8,153,554	11,694,759	2,914,522	26.3%	626,684	5.7%
Wastewater	-	-	-	-		-	
Stormwater	-	-	-	-		-	
DC Debt Charges Recoveries	(1,419,924)	(61,251)	(2,180,517)	(1,358,673)	95.7%	(760,593)	53.6%
<b>Sub-Total Debt Charges</b>	<b>9,648,152</b>	<b>8,092,303</b>	<b>9,514,242</b>	<b>1,555,849</b>	<b>16.1%</b>	<b>(133,909)</b>	<b>(1.4%)</b>
<b>Sub-Total Capital Financing</b>	<b>51,707,652</b>	<b>49,471,803</b>	<b>76,334,322</b>	<b>2,235,849</b>	<b>4.3%</b>	<b>24,626,671</b>	<b>47.6%</b>
<b>Reserve Transfers</b>	<b>24,677,346</b>	<b>24,796,334</b>	<b>5,395,094</b>	<b>(118,988)</b>	<b>(0.5%)</b>	<b>(19,282,252)</b>	<b>(78.1%)</b>
<b>Sub-Total Cap/Reserve Impacts on Operating</b>	<b>76,384,998</b>	<b>74,268,137</b>	<b>81,729,417</b>	<b>2,116,861</b>	<b>2.8%</b>	<b>5,344,419</b>	<b>7.0%</b>
<b>TOTAL EXPENDITURES</b>	<b>124,744,585</b>	<b>123,420,962</b>	<b>134,655,296</b>	<b>1,323,623</b>	<b>1.1%</b>	<b>9,910,711</b>	<b>7.9%</b>
<b>REVENUES:</b>							
<b>Rate Revenue</b>							
Residential	55,608,691	55,608,691	60,418,624	-	0.0%	4,809,933	8.6%
Industrial/Commercial/Institutional/Multi-res	60,378,450	58,378,450	64,528,536	(2,000,000)	(3.3%)	4,150,086	6.9%
Haldimand	2,834,077	3,334,077	3,606,687	500,000	17.6%	772,610	27.3%
Halton	282,409	332,409	310,553	50,000	17.7%	28,144	10.0%
Raw Water	105,000	181,376	190,100	76,376	72.7%	85,100	81.0%
Non-Metered	412,500	412,500	550,000	-	0.0%	137,500	33.3%
Private Fire Lines	1,980,000	1,880,000	1,800,000	(100,000)	(5.1%)	(180,000)	(9.1%)
Hauler / 3rd Party Sales	910,000	1,060,000	946,400	150,000	16.5%	36,400	4.0%
Overstrength Agreements	-	-	-	-	0.0%	-	0.0%
Sewer Surcharge Agreements	-	-	-	-	0.0%	-	0.0%
<b>Sub-Total Utility Rates</b>	<b>122,511,127</b>	<b>121,187,504</b>	<b>132,350,900</b>	<b>(1,323,623)</b>	<b>(1.1%)</b>	<b>9,839,773</b>	<b>8.0%</b>
<b>Non-Rate Revenue</b>							
Local Improvement Recoveries	10,000	10,000	10,000	-	0.0%	-	0.0%
Permits / Leases / Agreements	886,122	886,122	921,566	-	0.0%	35,445	4.0%
Investment Income	450,000	450,000	450,000	-	0.0%	-	0.0%
General Fees and Recoveries	887,336	887,336	922,830	-	0.0%	35,494	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>2,233,458</b>	<b>2,233,458</b>	<b>2,304,396</b>	<b>-</b>	<b>0.0%</b>	<b>70,939</b>	<b>3.2%</b>
<b>TOTAL REVENUES</b>	<b>124,744,585</b>	<b>123,420,962</b>	<b>134,655,296</b>	<b>(1,323,623)</b>	<b>(1.1%)</b>	<b>9,910,711</b>	<b>7.9%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON  
2023 - 2026 HAMILTON WATER OPERATING BUDGET  
WATER**

	2022 RESTATED BUDGET	2023 REQUESTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	2026 PROJECTED BUDGET	CHANGE 2023 REQUESTED / 2022 RESTATED BUDGET	CHANGE 2024 PROJECTED / 2023 REQUESTED BUDGET	CHANGE 2025 PROJECTED / 2024 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>											
Divisional Administration & Support	5,299,640	5,622,683	5,847,590	6,081,494	6,324,754	323,043	6.1%	224,907	4.0%	233,904	4.0%
Woodward Upgrades	850,260	941,124	978,768	1,017,919	1,058,636	90,864	10.7%	37,645	4.0%	39,151	4.0%
Customer Service & Community Outreach	3,125,775	3,504,498	3,653,395	3,799,531	3,951,512	378,723	12.1%	148,897	4.2%	146,136	4.0%
Compliance & Regulations	1,670,594	1,809,298	1,890,468	1,966,087	2,044,730	138,704	8.3%	81,170	4.5%	75,619	4.0%
Water Distribution & Wastewater Collection	15,319,753	15,394,056	16,049,180	16,691,147	17,358,793	74,303	0.5%	655,124	4.3%	641,967	4.0%
Plant Operations	14,413,437	17,284,297	17,988,289	18,707,821	19,456,134	2,870,859	19.9%	703,993	4.1%	719,532	4.0%
Plant Maintenance	5,854,386	6,281,547	6,532,809	6,794,121	7,065,886	427,162	7.3%	251,262	4.0%	261,312	4.0%
Capital Planning & Delivery	2,217,381	2,388,032	2,483,553	2,582,895	2,686,211	170,650	7.7%	95,521	4.0%	99,342	4.0%
Watershed Management	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Wastewater Abatement Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Alectra Utilities Service Contract	2,913,120	3,005,099	3,125,303	3,250,315	3,380,328	91,979	3.2%	120,204	4.0%	125,012	4.0%
Utilities Arrears Program	250,160	250,164	260,171	270,578	281,401	4	0.0%	10,007	4.0%	10,407	4.0%
Sewer Lateral Management Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Hamilton Harbour Remedial Action Plan	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Protective Plumbing Program (3P)	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Financial Charges	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
	<b>51,914,506</b>	<b>56,480,798</b>	<b>58,809,527</b>	<b>61,161,908</b>	<b>63,608,385</b>	<b>4,566,292</b>	<b>8.8%</b>	<b>2,328,730</b>	<b>4.1%</b>	<b>2,352,381</b>	<b>4.0%</b>
Capital and Reserve Recoveries	(3,554,918)	(3,554,918)	(3,697,115)	(3,844,999)	(3,998,799)	-	0.0%	(142,197)	4.0%	(147,885)	4.0%
<b>Sub-Total</b>	<b>48,359,587</b>	<b>52,925,880</b>	<b>55,112,412</b>	<b>57,316,909</b>	<b>59,609,585</b>	<b>4,566,292</b>	<b>9.4%</b>	<b>2,186,533</b>	<b>4.1%</b>	<b>2,204,496</b>	<b>4.0%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>											
<b><u>Contributions to Capital</u></b>											
Water Quality Initiatives	39,539,500	64,300,080	121,988,000	101,188,250	90,680,750	24,760,580	62.6%	57,687,920	89.7%	(20,799,750)	(17.1%)
Wastewater	-	-	-	-	-	-	-	-	-	-	-
Stormwater	-	-	-	-	-	-	-	-	-	-	-
<b>Sub-Total Contributions to Capital</b>	<b>39,539,500</b>	<b>64,300,080</b>	<b>121,988,000</b>	<b>101,188,250</b>	<b>90,680,750</b>	<b>24,760,580</b>	<b>62.6%</b>	<b>57,687,920</b>	<b>89.7%</b>	<b>(20,799,750)</b>	<b>(17.1%)</b>
<b><u>Contributions for DC Exemptions</u></b>											
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b><u>Capital Debt Charges</u></b>											
Water Quality Initiatives	11,068,076	11,694,759	18,585,426	24,223,667	29,525,969	626,684	5.7%	6,890,667	58.9%	5,638,241	30.3%
DC Debt Charges Recoveries	(1,419,924)	(2,180,517)	(6,463,270)	(10,085,588)	(13,559,772)	(760,593)	53.6%	(4,282,753)	196.4%	(3,622,319)	56.0%
<b>Sub-Total Debt Charges</b>	<b>9,648,152</b>	<b>9,514,242</b>	<b>12,122,156</b>	<b>14,138,079</b>	<b>15,966,197</b>	<b>(133,909)</b>	<b>(1.4%)</b>	<b>2,607,914</b>	<b>27.4%</b>	<b>2,015,922</b>	<b>16.6%</b>
<b>Sub-Total Capital Financing</b>	<b>51,707,652</b>	<b>76,334,322</b>	<b>136,630,156</b>	<b>117,846,329</b>	<b>109,166,947</b>	<b>24,626,671</b>	<b>47.6%</b>	<b>60,295,834</b>	<b>79.0%</b>	<b>(18,783,828)</b>	<b>(13.7%)</b>
<b>Reserve Transfers</b>	<b>24,677,346</b>	<b>5,395,094</b>	<b>(44,301,870)</b>	<b>(13,037,005)</b>	<b>9,270,146</b>	<b>(19,282,252)</b>	<b>(78.1%)</b>	<b>(49,696,965)</b>	<b>(921.2%)</b>	<b>31,264,865</b>	<b>(70.6%)</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>76,384,998</b>	<b>81,729,417</b>	<b>92,328,286</b>	<b>104,809,323</b>	<b>118,437,093</b>	<b>5,344,419</b>	<b>7.0%</b>	<b>10,598,869</b>	<b>13.0%</b>	<b>12,481,038</b>	<b>13.5%</b>
<b>TOTAL EXPENDITURES</b>	<b>124,744,585</b>	<b>134,655,296</b>	<b>147,440,698</b>	<b>162,126,232</b>	<b>178,046,679</b>	<b>9,910,711</b>	<b>7.9%</b>	<b>12,785,402</b>	<b>9.5%</b>	<b>14,685,534</b>	<b>10.0%</b>

**CITY OF HAMILTON  
 2023 - 2026 HAMILTON WATER OPERATING BUDGET  
 WATER**

	2022 RESTATED BUDGET	2023 REQUESTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	2026 PROJECTED BUDGET	CHANGE 2023 REQUESTED / 2022 RESTATED BUDGET	CHANGE 2024 PROJECTED / 2023 REQUESTED BUDGET	CHANGE 2025 PROJECTED / 2024 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	55,608,691	60,418,624	66,799,743	73,843,385	81,525,249	4,809,933	8.6%	6,381,120	10.6%	7,043,642	10.5%
Industrial/Commercial/Institutional/Multi-res	60,378,450	64,528,536	70,389,114	77,387,915	84,947,335	4,150,086	6.9%	5,860,578	9.1%	6,998,801	9.9%
Haldimand	2,834,077	3,606,687	3,914,375	4,308,520	4,726,449	772,610	27.3%	307,687	8.5%	394,145	10.1%
Halton	282,409	310,553	338,834	371,900	408,787	28,144	10.0%	28,281	9.1%	33,066	9.8%
Raw Water	105,000	190,100	197,704	205,612	213,837	85,100	81.0%	7,604	4.0%	7,908	4.0%
Non-Metered	412,500	550,000	566,500	583,495	601,000	137,500	33.3%	16,500	3.0%	16,995	3.0%
Private Fire Lines	1,980,000	1,800,000	1,872,000	1,946,880	2,024,755	(180,000)	(9.1%)	72,000	4.0%	74,880	4.0%
Hauler / 3rd Party Sales	910,000	946,400	984,256	1,023,626	1,064,571	36,400	4.0%	37,856	4.0%	39,370	4.0%
<b>Sub-Total Utility Rates</b>	<b>122,511,127</b>	<b>132,350,900</b>	<b>145,062,526</b>	<b>159,671,333</b>	<b>175,511,984</b>	<b>9,839,773</b>	<b>8.0%</b>	<b>12,711,626</b>	<b>9.6%</b>	<b>14,608,807</b>	<b>10.1%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	10,000	10,000	10,000	10,000	10,000	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	886,122	921,566	958,429	996,766	1,036,637	35,445	4.0%	36,863	4.0%	38,337	4.0%
Investment Income	450,000	450,000	450,000	450,000	450,000	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	887,336	922,830	959,743	998,133	1,038,058	35,494	4.0%	36,913	4.0%	38,390	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>2,233,458</b>	<b>2,304,396</b>	<b>2,378,172</b>	<b>2,454,899</b>	<b>2,534,695</b>	<b>70,939</b>	<b>3.2%</b>	<b>73,776</b>	<b>3.2%</b>	<b>76,727</b>	<b>3.2%</b>
<b>TOTAL REVENUES</b>	<b>124,744,585</b>	<b>134,655,296</b>	<b>147,440,698</b>	<b>162,126,232</b>	<b>178,046,679</b>	<b>9,910,711</b>	<b>7.9%</b>	<b>12,785,402</b>	<b>9.5%</b>	<b>14,685,534</b>	<b>10.0%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>



**CITY OF HAMILTON  
2023-2032 HAMILTON WATER OPERATING BUDGET  
WATER  
(000s)**

	2022 Restated	2023 Requested	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast	2032 Forecast
<b>OPERATING EXPENDITURES</b>											
OPERATING COSTS	48,360	52,926	55,112	57,317	59,610	61,994	64,546	67,410	69,623	72,311	75,105
<b>TOTAL OPERATING COSTS</b>	<b>48,360</b>	<b>52,926</b>	<b>55,112</b>	<b>57,317</b>	<b>59,610</b>	<b>61,994</b>	<b>64,546</b>	<b>67,410</b>	<b>69,623</b>	<b>72,311</b>	<b>75,105</b>
<b>CAPITAL &amp; RESERVE IMPACTS ON OPERATING</b>											
<b>Contributions to Capital</b>											
Water	39,540	64,300	121,988	101,188	90,681	119,216	126,020	118,597	102,485	89,211	92,346
<b>Sub-total Contributions to Capital</b>	<b>39,540</b>	<b>64,300</b>	<b>121,988</b>	<b>101,188</b>	<b>90,681</b>	<b>119,216</b>	<b>126,020</b>	<b>118,597</b>	<b>102,485</b>	<b>89,211</b>	<b>92,346</b>
<b>Contributions for DC Exemptions</b>											
Water	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
<b>Sub-total Contributions to Capital</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>
<b>Debt Charges</b>											
Water	11,068	11,695	18,585	24,224	29,526	32,823	34,857	37,782	37,649	37,573	35,935
DC Debt Charges Recoveries	(1,420)	(2,181)	(6,463)	(10,086)	(13,560)	(17,048)	(20,225)	(23,265)	(24,601)	(24,600)	(24,599)
<b>Sub-total Debt Charges</b>	<b>9,648</b>	<b>9,514</b>	<b>12,122</b>	<b>14,138</b>	<b>15,966</b>	<b>15,776</b>	<b>14,633</b>	<b>14,516</b>	<b>13,049</b>	<b>12,973</b>	<b>11,336</b>
	<b>107.91%</b>	<b>98.61%</b>	<b>127.41%</b>	<b>116.63%</b>	<b>1.129</b>	<b>98.81%</b>	<b>92.75%</b>	<b>99.21%</b>	<b>89.89%</b>	<b>99.42%</b>	<b>87.39%</b>
<b>Reserve Transfers</b>	<b>24,677</b>	<b>5,395</b>	<b>(44,302)</b>	<b>(13,037)</b>	<b>9,270</b>	<b>(4,274)</b>	<b>7,791</b>	<b>33,027</b>	<b>71,026</b>	<b>108,815</b>	<b>134,218</b>
<b>Sub-Total Capital &amp; Reserve Impacts on Operating</b>	<b>76,385</b>	<b>81,729</b>	<b>92,328</b>	<b>104,809</b>	<b>118,437</b>	<b>133,237</b>	<b>150,963</b>	<b>168,661</b>	<b>189,080</b>	<b>213,518</b>	<b>240,421</b>
<b>TOTAL EXPENDITURES</b>	<b>124,745</b>	<b>134,655</b>	<b>147,441</b>	<b>162,126</b>	<b>178,047</b>	<b>195,231</b>	<b>215,510</b>	<b>236,071</b>	<b>258,702</b>	<b>285,829</b>	<b>315,526</b>
<b>REVENUES</b>											
Residential	55,609	60,419	66,800	73,843	81,525	89,943	99,621	109,668	120,957	134,497	148,988
Industrial/Commercial/Institutional/Multi-res	60,378	64,529	70,389	77,388	84,947	93,003	102,757	112,441	122,898	135,475	149,537
Haldimand	2,834	3,607	3,914	4,309	4,726	5,167	5,723	6,255	6,828	7,508	8,300
Halton	282	311	339	372	409	447	494	540	591	650	719
Raw Water	105	190	198	206	214	222	231	241	250	260	271
Non-Metered	413	550	567	583	601	619	638	657	676	697	718
Private Fire Lines	1,980	1,800	1,872	1,947	2,025	2,106	2,190	2,278	2,369	2,463	2,562
Hauler / 3rd Party Sales	910	946	984	1,024	1,065	1,107	1,151	1,197	1,245	1,295	1,347
Non-Rate Revenue	2,233	2,304	2,378	2,455	2,535	2,618	2,704	2,794	2,887	2,984	3,085
<b>TOTAL REVENUES</b>	<b>124,745</b>	<b>134,655</b>	<b>147,441</b>	<b>162,126</b>	<b>178,047</b>	<b>195,231</b>	<b>215,510</b>	<b>236,071</b>	<b>258,702</b>	<b>285,829</b>	<b>315,526</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Rate Increase</b>	<b>5.7%</b>	<b>8.4%</b>	<b>9.9%</b>	<b>9.9%</b>	<b>9.8%</b>	<b>9.7%</b>	<b>10.2%</b>	<b>9.5%</b>	<b>9.7%</b>	<b>10.6%</b>	<b>10.2%</b>
<b>RESIDENTIAL BILL (200m<sup>3</sup> p.a.)</b>	<b>\$ 398.05</b>	<b>\$ 431.35</b>	<b>\$ 474.00</b>	<b>\$ 521.05</b>	<b>\$ 572.10</b>	<b>\$ 627.60</b>	<b>\$ 691.50</b>	<b>\$ 757.05</b>	<b>\$ 830.25</b>	<b>\$ 917.95</b>	<b>\$ 1,011.60</b>

**CITY OF HAMILTON**  
**2023 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WASTEWATER AND STORM**

	2022 RESTATE D BUDGET	2022 PROJECTED ACTUAL	2023 REQUESTED BUDGET	CHANGE		CHANGE	
	\$	\$	\$	2022 PROJECTED / 2022 RESTATE D BUDGET	ACTUAL	2023 REQUESTED / 2022 RESTATE D BUDGET	%
				\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
Divisional Administration & Support	5,538,053	5,538,053	5,875,630	-	0.0%	337,577	6.1%
Woodward Upgrades	914,569	914,569	1,012,305	-	0.0%	97,736	10.7%
Customer Service & Community Outreach	3,049,772	2,876,623	3,419,287	173,149	5.7%	369,515	12.1%
Compliance & Regulations	5,571,576	5,571,576	6,034,167	-	0.0%	462,591	8.3%
Water Distribution & Wastewater Collection	8,802,675	8,802,675	8,845,370	-	0.0%	42,694	0.5%
Plant Operations	15,495,743	16,612,732	18,582,175	(1,116,989)	(7.2%)	3,086,432	19.9%
Plant Maintenance	5,854,386	5,786,116	6,281,547	68,270	1.2%	427,162	7.3%
Capital Planning & Delivery	2,710,133	2,710,133	2,918,705	-	0.0%	208,573	7.7%
Watershed Management	1,282,313	1,282,313	1,642,718	-	0.0%	360,405	28.1%
Wastewater Abatement Program	1,142,450	1,142,450	1,142,465	-	0.0%	15	0.0%
Alectra Utilities Service Contract	2,913,120	2,913,120	3,005,099	-	0.0%	91,979	3.2%
Utilities Arrears Program	250,160	250,160	250,164	-	0.0%	4	0.0%
Sewer Lateral Management Program	300,000	300,000	325,000	-	0.0%	25,000	8.3%
Hamilton Harbour Remedial Action Plan	578,964	578,964	604,011	-	0.0%	25,047	4.3%
Protective Plumbing Program (3P)	752,870	623,928	752,938	128,942	17.1%	68	0.0%
Financial Charges	86,020	86,020	86,118	-	0.0%	98	0.1%
	55,242,804	55,989,432	60,777,701	(746,628)	(1.4%)	5,534,897	10.0%
Capital and Reserve Recoveries	(5,191,262)	(5,191,262)	(5,191,262)	-	0.0%	-	0.0%
<b>Sub-Total</b>	<b>50,051,542</b>	<b>50,798,170</b>	<b>55,586,439</b>	<b>(746,628)</b>	<b>(1.5%)</b>	<b>5,534,897</b>	<b>11.1%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Water Quality Initiatives	-	-	-	-	0.0%	-	0.0%
Wastewater	73,784,138	74,124,138	54,231,042	(340,000)	(0.5%)	(19,553,096)	(26.5%)
Stormwater	11,765,000	12,105,000	14,822,000	(340,000)	(2.9%)	3,057,000	26.0%
<b>Sub-Total Contributions to Capital</b>	<b>85,549,138</b>	<b>86,229,138</b>	<b>69,053,042</b>	<b>(680,000)</b>	<b>(0.8%)</b>	<b>(16,496,096)</b>	<b>(19.3%)</b>
<b><u>Contributions for DC Exemptions</u></b>							
Wastewater	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%
Stormwater	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2023 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WASTEWATER AND STORM**

	2022	2022	2023	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2022 PROJECTED / 2022 RESTATED BUDGET	ACTUAL	2023 REQUESTED / 2022 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>Debt Charges</u></b>							
Wastewater	12,881,726	7,968,426	13,229,466	4,913,300	38.1%	347,740	2.7%
Stormwater	3,584,490	2,969,443	3,780,708	615,047	17.2%	196,218	5.5%
DC Debt Charges Recoveries	(3,765,196)	(462,441)	(4,943,110)	(3,302,755)	87.7%	(1,177,914)	31.3%
<b>Sub-Total Debt Charges</b>	<b>12,701,020</b>	<b>10,475,428</b>	<b>12,067,064</b>	<b>2,225,592</b>	<b>17.5%</b>	<b>(633,956)</b>	<b>(5.0%)</b>
<b>Reserve Transfers</b>	<b>(21,675,376)</b>	<b>(21,972,662)</b>	<b>(5,395,094)</b>	<b>297,286</b>	<b>(1.4%)</b>	<b>16,280,282</b>	<b>(75.1%)</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>83,054,782</b>	<b>81,211,904</b>	<b>82,205,012</b>	<b>1,842,878</b>	<b>2.2%</b>	<b>(849,770)</b>	<b>(1.0%)</b>
<b>TOTAL EXPENDITURES</b>	<b>133,106,324</b>	<b>132,010,074</b>	<b>137,791,451</b>	<b>1,096,250</b>	<b>0.8%</b>	<b>4,685,126</b>	<b>3.5%</b>
<b><u>REVENUES:</u></b>							
<b><u>Rate Revenue</u></b>							
Residential	58,311,083	58,311,083	61,317,615	-	0.0%	3,006,532	5.2%
Industrial/Commercial/Institutional/Multi-res Non-Metered	62,945,512	60,945,512	63,806,066	(2,000,000)	(3.2%)	860,554	1.4%
Hauler / 3rd Party Sales	412,500	412,500	550,000	-	0.0%	137,500	33.3%
Overstrength Agreements	910,000	1,060,000	946,400	150,000	16.5%	36,400	4.0%
Sewer Surcharge Agreements	3,306,825	2,524,414	3,439,098	(782,411)	(23.7%)	132,273	4.0%
<b>Sub-Total Utility Rates</b>	<b>6,511,190</b>	<b>8,047,351</b>	<b>7,005,322</b>	<b>1,536,161</b>	<b>23.6%</b>	<b>494,132</b>	<b>7.6%</b>
<b>Sub-Total Utility Rates</b>	<b>132,397,110</b>	<b>131,300,860</b>	<b>137,064,502</b>	<b>(1,096,250)</b>	<b>(.8%)</b>	<b>4,667,392</b>	<b>3.5%</b>
<b><u>Non-Rate Revenue</u></b>							
Local Improvement Recoveries	265,850	265,850	265,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	221,530	221,530	230,392	-	0.0%	8,861	4.0%
Investment Income	-	-	-	-	0.0%	-	0.0%
General Fees and Recoveries	221,834	221,834	230,707	-	0.0%	8,873	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>709,214</b>	<b>709,214</b>	<b>726,949</b>	<b>-</b>	<b>0.0%</b>	<b>17,735</b>	<b>2.5%</b>
<b>TOTAL REVENUES</b>	<b>133,106,324</b>	<b>132,010,074</b>	<b>137,791,451</b>	<b>(1,096,250)</b>	<b>(0.8%)</b>	<b>4,685,126</b>	<b>3.5%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON  
 2023 - 2026 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
 COMBINED WASTEWATER AND STORM**

	2022 RESTATED BUDGET	2023 REQUESTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	2026 PROJECTED BUDGET	CHANGE 2023 REQUESTED / 2022 RESTATED BUDGET	CHANGE 2024 PROJECTED / 2023 REQUESTED BUDGET	CHANGE 2025 PROJECTED / 2024 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	%	\$	%	\$	%	
<b><u>OPERATING EXPENDITURES:</u></b>											
Divisional Administration & Support	5,538,053	5,875,630	6,110,656	6,355,082	6,609,285	337,577	6.1%	235,025	4.0%	244,426	4.0%
Woodward Upgrades	914,569	1,012,305	1,052,797	1,094,909	1,138,706	97,736	10.7%	40,492	4.0%	42,112	4.0%
Customer Service & Community Outreach	3,049,772	3,419,287	3,564,433	3,707,011	3,855,291	369,515	12.1%	145,147	4.2%	142,577	4.0%
Compliance & Regulations	5,571,576	6,034,167	6,320,455	6,573,273	6,836,204	462,591	8.3%	286,287	4.7%	252,818	4.0%
Water Distribution & Wastewater Collection	8,802,675	8,845,370	9,238,546	9,608,088	9,992,412	42,694	0.5%	393,177	4.4%	369,542	4.0%
Plant Operations	15,495,743	18,582,175	19,340,494	20,114,114	20,918,678	3,086,432	19.9%	758,319	4.1%	773,620	4.0%
Plant Maintenance	5,854,386	6,281,547	6,532,809	6,794,121	7,065,886	427,162	7.3%	251,262	4.0%	261,312	4.0%
Capital Planning & Delivery	2,710,133	2,918,705	3,035,454	3,156,872	3,283,147	208,573	7.7%	116,748	4.0%	121,418	4.0%
Watershed Management	1,282,313	1,642,718	1,744,007	1,813,767	1,886,318	360,405	28.1%	101,288	6.2%	69,760	4.0%
Wastewater Abatement Program	1,142,450	1,142,465	1,188,163	1,235,690	1,285,117	15	0.0%	45,699	4.0%	47,527	4.0%
Alectra Utilities Service Contract	2,913,120	3,005,099	3,125,303	3,250,315	3,380,328	91,979	3.2%	120,204	4.0%	125,012	4.0%
Utilities Arrears Program	250,160	250,164	260,171	270,578	281,401	4	0.0%	10,007	4.0%	10,407	4.0%
Sewer Lateral Management Program	300,000	325,000	338,000	351,520	365,581	25,000	8.3%	13,000	4.0%	13,520	4.0%
Hamilton Harbour Remedial Action Plan	578,964	604,011	628,172	653,299	679,430	25,047	4.3%	24,160	4.0%	25,127	4.0%
Protective Plumbing Program (3P)	752,870	752,938	783,055	814,377	846,952	68	0.0%	30,118	4.0%	31,322	4.0%
Financial Charges	86,020	86,118	89,563	93,146	96,872	98	0.1%	3,445	4.0%	3,583	4.0%
	55,242,804	60,777,701	63,352,078	65,886,161	68,521,607	5,534,897	10.0%	2,574,377	4.2%	2,534,083	4.0%
Capital and Reserve Recoveries	(5,191,262)	(5,191,262)	(5,398,912)	(5,614,869)	(5,839,464)	-	0.0%	(207,650)	4.0%	(215,956)	4.0%
<b>Sub-Total</b>	<b>50,051,542</b>	<b>55,586,439</b>	<b>57,953,166</b>	<b>60,271,292</b>	<b>62,682,144</b>	<b>5,534,897</b>	<b>11.1%</b>	<b>2,366,727</b>	<b>4.3%</b>	<b>2,318,127</b>	<b>4.0%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>											
<b><u>Contributions to Capital</u></b>											
Water Quality Initiatives	-	-	-	-	-	-	-	-	-	-	-
Wastewater	73,784,138	54,231,042	3,442,070	35,613,970	69,663,171	(19,553,096)	(26.5%)	(50,788,972)	(93.7%)	32,171,900	934.7%
Stormwater	11,765,000	14,822,000	19,464,107	20,796,374	17,339,000	3,057,000	26.0%	4,642,107	31.3%	1,332,267	6.8%
<b>Sub-Total Contributions to Capital</b>	<b>85,549,138</b>	<b>69,053,042</b>	<b>22,906,177</b>	<b>56,410,344</b>	<b>87,002,171</b>	<b>(16,496,096)</b>	<b>(19.3%)</b>	<b>(46,146,865)</b>	<b>(66.8%)</b>	<b>33,504,167</b>	<b>146.3%</b>
Wastewater	4,590,000	4,590,000	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%	-	0.0%
Stormwater	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b><u>Capital Debt Charges</u></b>											
Wastewater	12,881,726	13,229,466	28,091,287	43,930,679	57,104,072	347,740	2.7%	14,861,822	112.3%	15,839,392	56.4%
Stormwater	3,584,490	3,780,708	7,020,070	10,341,583	11,718,636	196,218	5.5%	3,239,362	85.7%	3,321,514	47.3%
DC Debt Charges Recoveries	(3,765,196)	(4,943,110)	(15,546,741)	(24,443,352)	(33,100,771)	(1,177,914)	31.3%	(10,603,631)	214.5%	(8,896,610)	57.2%
<b>Sub-Total Debt Charges</b>	<b>12,701,020</b>	<b>12,067,064</b>	<b>19,564,616</b>	<b>29,828,911</b>	<b>35,721,937</b>	<b>(633,956)</b>	<b>(5.0%)</b>	<b>7,497,552</b>	<b>62.1%</b>	<b>10,264,295</b>	<b>52.5%</b>
<b>Sub-Total Capital Financing</b>	<b>104,730,158</b>	<b>87,600,106</b>	<b>48,950,793</b>	<b>92,719,255</b>	<b>129,204,108</b>	<b>(17,130,052)</b>	<b>(16.4%)</b>	<b>(38,649,313)</b>	<b>(44.1%)</b>	<b>43,768,462</b>	<b>89.4%</b>
Reserve Transfers	(21,675,376)	(5,395,094)	44,301,871	13,037,005	(9,270,146)	16,280,282	(75.1%)	49,696,965	(921.2%)	(31,264,865)	(70.6%)
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>83,054,782</b>	<b>82,205,012</b>	<b>93,252,663</b>	<b>105,756,260</b>	<b>119,933,962</b>	<b>(849,770)</b>	<b>(1.0%)</b>	<b>11,047,651</b>	<b>13.4%</b>	<b>12,503,597</b>	<b>13.4%</b>
<b>TOTAL EXPENDITURES</b>	<b>133,106,324</b>	<b>137,791,451</b>	<b>151,205,829</b>	<b>166,027,552</b>	<b>182,616,106</b>	<b>4,685,126</b>	<b>3.5%</b>	<b>13,414,378</b>	<b>9.7%</b>	<b>14,821,724</b>	<b>9.8%</b>

**CITY OF HAMILTON  
2023 - 2026 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
COMBINED WASTEWATER AND STORM**

	2022 RESTATED BUDGET	2023 REQUESTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	2026 PROJECTED BUDGET	CHANGE 2023 REQUESTED / 2022 RESTATED BUDGET	CHANGE 2024 PROJECTED / 2023 REQUESTED BUDGET	CHANGE 2025 PROJECTED / 2024 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	%	\$	%	\$	%	
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	58,311,083	61,317,615	67,968,397	75,172,073	83,367,646	3,006,532	5.2%	6,650,782	10.8%	7,203,676	10.6%
Industrial/Commercial/Institutional/Multi-res	62,945,512	63,806,066	70,079,085	77,187,098	85,049,812	860,554	1.4%	6,273,019	9.8%	7,108,013	10.1%
Non-Metered	412,500	550,000	566,500	583,495	601,000	137,500	33.3%	16,500	3.0%	16,995	3.0%
Hauler / 3rd Party Sales	910,000	946,400	984,256	1,023,626	1,064,571	36,400	4.0%	37,856	4.0%	39,370	4.0%
Overstrength Agreements	3,306,825	3,439,098	3,576,662	3,719,729	3,868,518	132,273	4.0%	137,564	4.0%	143,066	4.0%
Sewer Surcharge Agreements	6,511,190	7,005,322	7,285,535	7,576,957	7,880,035	494,132	7.6%	280,213	4.0%	291,421	4.0%
<b>Sub-Total Utility Rates</b>	<b>132,397,110</b>	<b>137,064,502</b>	<b>150,460,436</b>	<b>165,262,978</b>	<b>181,831,582</b>	<b>4,667,392</b>	<b>3.5%</b>	<b>13,395,934</b>	<b>9.8%</b>	<b>14,802,542</b>	<b>9.8%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	265,850	265,850	265,850	265,850	265,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	221,530	230,392	239,607	249,192	259,159	8,861	4.0%	9,216	4.0%	9,584	4.0%
Investment Income	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	221,834	230,707	239,936	249,533	259,514	8,873	4.0%	9,228	4.0%	9,597	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>709,214</b>	<b>726,949</b>	<b>745,393</b>	<b>764,575</b>	<b>784,524</b>	<b>17,735</b>	<b>2.5%</b>	<b>18,444</b>	<b>2.5%</b>	<b>19,182</b>	<b>2.6%</b>
<b>TOTAL REVENUES</b>	<b>133,106,324</b>	<b>137,791,451</b>	<b>151,205,829</b>	<b>166,027,552</b>	<b>182,616,106</b>	<b>4,685,126</b>	<b>3.5%</b>	<b>13,414,378</b>	<b>9.7%</b>	<b>14,821,724</b>	<b>9.8%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2023-2032 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WASTEWATER AND STORM**  
(\$ 000'S)

	2022 Restated	2023 Requested	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast	2032 Forecast
<b>OPERATING EXPENDITURES</b>											
OPERATING COSTS	50,052	55,586	57,953	60,271	62,682	65,189	67,521	70,112	72,804	75,601	78,508
<b>TOTAL OPERATING COSTS</b>	<b>50,052</b>	<b>55,586</b>	<b>57,953</b>	<b>60,271</b>	<b>62,682</b>	<b>65,189</b>	<b>67,521</b>	<b>70,112</b>	<b>72,804</b>	<b>75,601</b>	<b>78,508</b>
<b>CAPITAL &amp; RESERVE IMPACTS ON OPERATING</b>											
<b>Contributions to Capital</b>											
Wastewater	73,784	54,231	3,442	35,614	69,663	46,792	65,886	71,411	102,445	94,281	89,156
Stormwater	11,765	14,822	19,464	20,796	17,339	40,197	49,061	45,615	29,685	32,453	31,695
<b>Sub-total Contributions to Capital</b>	<b>85,549</b>	<b>69,053</b>	<b>22,906</b>	<b>56,410</b>	<b>87,002</b>	<b>86,989</b>	<b>114,947</b>	<b>117,026</b>	<b>132,130</b>	<b>126,734</b>	<b>120,851</b>
<b>Contributions for DC Exemptions</b>											
Wastewater	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590
Stormwater	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
<b>Sub-total Contributions to Capital</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>
<b>Debt Charges</b>											
Wastewater	12,882	13,229	28,091	43,931	57,104	68,029	75,523	83,239	85,534	85,474	82,923
Stormwater	3,584	3,781	7,020	10,342	11,719	12,508	13,032	13,219	13,129	13,069	12,554
DC Debt Charges Recoveries	(3,765)	(4,943)	(15,547)	(24,443)	(33,101)	(42,481)	(49,481)	(56,481)	(59,994)	(60,020)	(60,012)
<b>Sub-total Debt Charges</b>	<b>12,701</b>	<b>12,067</b>	<b>19,565</b>	<b>29,829</b>	<b>35,722</b>	<b>38,056</b>	<b>39,074</b>	<b>39,978</b>	<b>38,670</b>	<b>38,522</b>	<b>35,465</b>
	<b>107.91%</b>	<b>95.01%</b>	<b>162.13%</b>	<b>152.46%</b>	<b>119.76%</b>	<b>106.53%</b>	<b>102.68%</b>	<b>102.31%</b>	<b>96.73%</b>	<b>99.62%</b>	<b>92.06%</b>
<b>Reserve Transfers</b>	<b>(21,675)</b>	<b>(5,395)</b>	<b>44,302</b>	<b>13,037</b>	<b>(9,270)</b>	<b>4,274</b>	<b>(7,791)</b>	<b>9,203</b>	<b>17,681</b>	<b>45,542</b>	<b>80,631</b>
<b>Sub-Total Capital &amp; Reserve Impacts on Operating</b>	<b>83,055</b>	<b>82,205</b>	<b>93,253</b>	<b>105,756</b>	<b>119,934</b>	<b>135,799</b>	<b>152,711</b>	<b>172,687</b>	<b>194,961</b>	<b>217,279</b>	<b>243,427</b>
<b>TOTAL EXPENDITURES</b>	<b>133,106</b>	<b>137,791</b>	<b>151,206</b>	<b>166,028</b>	<b>182,616</b>	<b>200,988</b>	<b>220,232</b>	<b>242,799</b>	<b>267,764</b>	<b>292,880</b>	<b>321,935</b>
<b>REVENUES</b>											
Residential	58,311	61,318	67,968	75,172	83,368	92,571	102,417	113,628	126,177	138,857	153,234
Industrial/Commercial/Institutional/Multi-res	62,946	63,806	70,079	77,187	85,050	93,667	102,492	113,252	125,049	136,840	150,849
Non-Metered	413	550	567	583	601	619	638	657	676	697	718
Hauler / 3rd Party Sales	910	946	984	1,024	1,065	1,107	1,151	1,197	1,245	1,295	1,347
Overstrength Agreements	3,307	3,439	3,577	3,720	3,869	4,023	4,184	4,352	4,526	4,707	4,895
Sewer Surcharge Agreements	6,511	7,005	7,286	7,577	7,880	8,195	8,523	8,864	9,219	9,587	9,971
Non-Rate Revenue	709	727	745	765	785	805	827	849	873	897	922
<b>TOTAL REVENUES</b>	<b>133,106</b>	<b>137,791</b>	<b>151,206</b>	<b>166,028</b>	<b>182,616</b>	<b>200,988</b>	<b>220,232</b>	<b>242,799</b>	<b>267,764</b>	<b>292,880</b>	<b>321,935</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Rate Increase</b>	<b>4.3%</b>	<b>4.7%</b>	<b>10.2%</b>	<b>10.0%</b>	<b>10.3%</b>	<b>10.4%</b>	<b>10.0%</b>	<b>10.3%</b>	<b>10.4%</b>	<b>9.4%</b>	<b>9.8%</b>
<b>RESIDENTIAL BILL (200m<sup>3</sup> p.a.)</b>	<b>\$ 425.80</b>	<b>\$ 445.95</b>	<b>\$ 491.40</b>	<b>\$ 540.45</b>	<b>\$ 595.95</b>	<b>\$ 657.90</b>	<b>\$ 723.50</b>	<b>\$ 798.30</b>	<b>\$ 881.55</b>	<b>\$ 964.80</b>	<b>\$ 1,059.25</b>

**CITY OF HAMILTON**  
**2023 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**WASTEWATER**

	2022	2022	2023	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2022 PROJECTED ACTUAL / 2022 RESTATED BUDGET	2023 REQUESTED / 2022 RESTATED BUDGET		
	\$	\$	\$	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
<b><u>Environmental Services</u></b>							
Divisional Administration & Support	4,900,480	4,900,480	5,199,194	-	0.0%	298,713	6.1%
Woodward Upgrades	850,260	850,260	941,124	-	0.0%	90,864	10.7%
Customer Service & Community Outreach	2,052,204	1,935,691	2,300,852	116,513	5.7%	248,648	12.1%
Compliance & Regulations	5,308,841	5,308,841	5,749,618	-	0.0%	440,777	8.3%
Water Distribution & Wastewater Collection	4,971,989	4,971,989	4,996,104	-	0.0%	24,115	0.5%
Plant Operations	15,380,313	16,488,982	18,443,754	(1,108,668)	(7.2%)	3,063,441	19.9%
Plant Maintenance	5,151,859	5,091,782	5,527,762	60,077	1.2%	375,902	7.3%
Capital Planning & Delivery	2,217,381	2,217,381	2,388,032	-	0.0%	170,650	7.7%
Watershed Management	-	-	-	-	0.0%	-	0.0%
Wastewater Abatement Program	1,142,450	1,142,450	1,142,465	-	0.0%	15	0.0%
Alectra Utilities Service Contract	2,913,120	2,913,120	3,005,099	-	0.0%	91,979	3.2%
Utilities Arrears Program	250,160	250,160	250,164	-	0.0%	4	0.0%
Sewer Lateral Management Program	300,000	300,000	325,000	-	0.0%	25,000	8.3%
Hamilton Harbour Remedial Action Plan	-	-	-	-	0.0%	-	0.0%
Protective Plumbing Program (3P)	-	-	-	-	0.0%	-	0.0%
Financial Charges	86,020	86,020	86,118	-	0.0%	98	0.1%
	45,525,078	46,457,157	50,355,285	(932,078)	(2.0%)	4,830,207	10.6%
Capital and Reserve Recoveries	(3,554,918)	(3,554,918)	(3,554,918)	-	0.0%	-	0.0%
<b>Sub-Total Environmental Services</b>	<b>41,970,160</b>	<b>42,902,239</b>	<b>46,800,367</b>	<b>(932,078)</b>	<b>(2.2%)</b>	<b>4,830,207</b>	<b>11.5%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Wastewater	73,784,138	74,124,138	54,231,042	(340,000)	(0.5%)	(19,553,096)	(26.5%)
<b>Sub-Total Contributions to Capital</b>	<b>73,784,138</b>	<b>74,124,138</b>	<b>54,231,042</b>	<b>(340,000)</b>	<b>(0.5%)</b>	<b>(19,553,096)</b>	<b>(26.5%)</b>
<b><u>Contributions for DC Exemptions</u></b>							
Wastewater	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b><u>Capital Debt Charges</u></b>							
Wastewater	12,881,726	7,968,426	13,229,466	4,913,300	38.1%	347,740	2.7%
Stormwater	-	-	-	-	-	-	-
DC Debt Charges Recoveries	(2,993,473)	(264,824)	(3,945,399)	(2,728,649)	91.2%	(951,926)	31.8%
<b>Sub-Total Debt Charges</b>	<b>9,888,253</b>	<b>7,703,602</b>	<b>9,284,067</b>	<b>2,184,651</b>	<b>22.1%</b>	<b>(604,186)</b>	<b>(6.1%)</b>
<b>Sub-Total Capital Financing</b>	<b>88,262,391</b>	<b>86,417,740</b>	<b>68,105,109</b>	<b>1,844,651</b>	<b>2.1%</b>	<b>(20,157,282)</b>	<b>(22.8%)</b>

**CITY OF HAMILTON**  
**2023 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**WASTEWATER**

	2022	2022	2023	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2022 PROJECTED / 2022 RESTATED BUDGET	ACTUAL	2023 REQUESTED / 2022 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
Reserve Transfers	2,873,773	2,690,096	22,885,975	183,677	6.4%	20,012,202	696.4%
Sub-Total Cap\Reserve Impacts on Operating	91,136,164	89,107,836	90,991,083	2,028,328	2.2%	(145,081)	(0.2%)
<b>TOTAL EXPENDITURES</b>	<b>133,106,324</b>	<b>132,010,074</b>	<b>137,791,451</b>	<b>1,096,250</b>	<b>0.8%</b>	<b>4,685,126</b>	<b>3.5%</b>
<b>REVENUES:</b>							
<b>Rate Revenue</b>							
Residential	58,311,083	58,311,083	61,317,615	-	0.0%	3,006,532	5.2%
Industrial/Commercial/Institutional/Multi-res	62,945,512	60,945,512	63,806,066	(2,000,000)	(3.2%)	860,554	1.4%
Non-Metered	412,500	412,500	550,000	-	0.0%	137,500	33.3%
Hauler / 3rd Party Sales	910,000	1,060,000	946,400	150,000	16.5%	36,400	4.0%
Overstrength Agreements	3,306,825	2,524,414	3,439,098	(782,411)	(23.7%)	132,273	4.0%
Sewer Surcharge Agreements	6,511,190	8,047,351	7,005,322	1,536,161	23.6%	494,132	7.6%
<b>Sub-Total Utility Rates</b>	<b>132,397,110</b>	<b>131,300,860</b>	<b>137,064,502</b>	<b>(1,096,250)</b>	<b>(0.8%)</b>	<b>4,667,392</b>	<b>3.5%</b>
<b>Non-Rate Revenue</b>							
Local Improvement Recoveries	265,850	265,850	265,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	221,530	221,530	230,392	-	0.0%	8,861	4.0%
Investment Income	-	-	-	-	0.0%	-	0.0%
General Fees and Recoveries	221,834	221,834	230,707	-	0.0%	8,873	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>709,214</b>	<b>709,214</b>	<b>726,949</b>	<b>-</b>	<b>0.0%</b>	<b>17,735</b>	<b>2.5%</b>
<b>TOTAL REVENUES</b>	<b>133,106,324</b>	<b>132,010,074</b>	<b>137,791,451</b>	<b>(1,096,250)</b>	<b>(0.8%)</b>	<b>4,685,126</b>	<b>3.5%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>



**CITY OF HAMILTON  
2023 - 2026 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
WASTEWATER**

	2022 RESTATED BUDGET	2023 REQUESTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	2026 PROJECTED BUDGET	CHANGE 2023 REQUESTED / 2022 RESTATED BUDGET		CHANGE 2024 PROJECTED / 2023 REQUESTED BUDGET		CHANGE 2025 PROJECTED / 2024 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>											
Divisional Administration & Support	4,900,480	5,199,194	5,407,161	5,623,448	5,848,386	298,713	6.1%	207,968	4.0%	216,286	4.0%
Woodward Upgrades	850,260	941,124	978,768	1,017,919	1,058,636	90,864	10.7%	37,645	4.0%	39,151	4.0%
Customer Service & Community Outreach	2,052,204	2,300,852	2,397,843	2,493,756	2,593,507	248,648	12.1%	96,991	4.2%	95,914	4.0%
Compliance & Regulations	5,308,841	5,749,618	6,022,482	6,263,381	6,513,916	440,777	8.3%	272,864	4.7%	240,899	4.0%
Water Distribution & Wastewater Collection	4,971,989	4,996,104	5,235,310	5,444,723	5,662,512	24,115	0.5%	239,206	4.8%	209,412	4.0%
Plant Operations	15,380,313	18,443,754	19,196,280	19,964,131	20,762,696	3,063,441	19.9%	752,525	4.1%	767,851	4.0%
Plant Maintenance	5,151,859	5,527,762	5,748,872	5,978,827	6,217,980	375,902	7.3%	221,110	4.0%	229,955	4.0%
Capital Planning & Delivery	2,217,381	2,388,032	2,483,553	2,582,895	2,686,211	170,650	7.7%	95,521	4.0%	99,342	4.0%
Watershed Management	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Wastewater Abatement Program	1,142,450	1,142,465	1,188,163	1,235,690	1,285,117	15	0.0%	45,699	4.0%	47,527	4.0%
Alectra Utilities Service Contract	2,913,120	3,005,099	3,125,303	3,250,315	3,380,328	91,979	3.2%	120,204	4.0%	125,012	4.0%
Utilities Arrears Program	250,160	250,164	260,171	270,578	281,401	4	0.0%	10,007	4.0%	10,407	4.0%
Sewer Lateral Management Program	300,000	325,000	338,000	351,520	365,581	25,000	8.3%	13,000	4.0%	13,520	4.0%
Hamilton Harbour Remedial Action Plan	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Protective Plumbing Program (3P)	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Financial Charges	86,020	86,118	89,563	93,146	96,872	98	0.1%	3,445	4.0%	3,583	4.0%
	45,525,078	50,355,285	52,471,470	54,570,328	56,753,141	4,830,207	10.6%	2,116,184	4.2%	2,098,859	4.0%
Capital and Reserve Recoveries	(3,554,918)	(3,554,918)	(3,697,115)	(3,844,999)	(3,998,799)	-	0.0%	(142,197)	4.0%	(147,885)	4.0%
<b>Sub-Total</b>	<b>41,970,160</b>	<b>46,800,367</b>	<b>48,774,355</b>	<b>50,725,329</b>	<b>52,754,342</b>	<b>4,830,207</b>	<b>11.5%</b>	<b>1,973,987</b>	<b>4.2%</b>	<b>1,950,974</b>	<b>4.0%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>											
<b><u>Contributions to Capital</u></b>											
Wastewater	73,784,138	54,231,042	3,442,070	35,613,970	69,663,171	(19,553,096)	(26.5%)	(50,788,972)	(93.7%)	32,171,900	934.7%
<b>Sub-Total Contributions to Capital</b>	<b>73,784,138</b>	<b>54,231,042</b>	<b>3,442,070</b>	<b>35,613,970</b>	<b>69,663,171</b>	<b>(19,553,096)</b>	<b>(26.5%)</b>	<b>(50,788,972)</b>	<b>(93.7%)</b>	<b>32,171,900</b>	<b>934.7%</b>
<b><u>Contributions for DC Exemptions</u></b>											
Wastewater	4,590,000	4,590,000	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b><u>Debt Charges</u></b>											
Wastewater	12,881,726	13,229,466	28,091,287	43,930,679	57,104,072	347,740	2.7%	14,861,822	112.3%	15,839,392	56.4%
DC Debt Charges Recoveries	(2,993,473)	(3,945,399)	(11,837,316)	(18,512,702)	(26,546,960)	(951,926)	31.8%	(7,891,917)	200.0%	(6,675,387)	56.4%
<b>Sub-Total Debt Charges</b>	<b>9,888,253</b>	<b>9,284,067</b>	<b>16,253,972</b>	<b>25,417,977</b>	<b>30,557,111</b>	<b>(604,186)</b>	<b>(6.1%)</b>	<b>6,969,905</b>	<b>75.1%</b>	<b>9,164,005</b>	<b>56.4%</b>
<b>Sub-Total Capital Financing</b>	<b>88,262,391</b>	<b>68,105,109</b>	<b>24,286,042</b>	<b>65,621,947</b>	<b>104,810,282</b>	<b>(20,157,282)</b>	<b>(22.8%)</b>	<b>(43,819,067)</b>	<b>(64.3%)</b>	<b>41,335,905</b>	<b>170.2%</b>
<b>Reserve Transfers</b>	<b>2,873,773</b>	<b>22,885,975</b>	<b>78,145,432</b>	<b>49,680,277</b>	<b>25,051,482</b>	<b>20,012,202</b>	<b>696.4%</b>	<b>55,259,458</b>	<b>241.5%</b>	<b>(28,465,156)</b>	<b>(36.4%)</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>91,136,164</b>	<b>90,991,083</b>	<b>102,431,474</b>	<b>115,302,224</b>	<b>129,861,764</b>	<b>(145,081)</b>	<b>(0.2%)</b>	<b>11,440,391</b>	<b>12.6%</b>	<b>12,870,749</b>	<b>12.6%</b>
<b>TOTAL EXPENDITURES</b>	<b>133,106,324</b>	<b>137,791,451</b>	<b>151,205,829</b>	<b>166,027,552</b>	<b>182,616,106</b>	<b>4,685,126</b>	<b>3.5%</b>	<b>13,414,378</b>	<b>9.7%</b>	<b>14,821,724</b>	<b>9.8%</b>

**CITY OF HAMILTON  
2023 - 2026 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
WASTEWATER**

	2022 RESTATED BUDGET	2023 REQUESTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	2026 PROJECTED BUDGET	CHANGE 2023 REQUESTED / 2022 RESTATED BUDGET	CHANGE 2024 PROJECTED / 2023 REQUESTED BUDGET	CHANGE 2025 PROJECTED / 2024 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	%	\$	%	\$	%	
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	58,311,083	61,317,615	67,968,397	75,172,073	83,367,646	3,006,532	5.2%	6,650,782	10.8%	7,203,676	10.6%
Industrial/Commercial/Institutional/Multi-res	62,945,512	63,806,066	70,079,085	77,187,098	85,049,812	860,554	1.4%	6,273,019	9.8%	7,108,013	10.1%
Non-Metered	412,500	550,000	566,500	583,495	601,000	137,500	33.3%	16,500	3.0%	16,995	3.0%
Hauler / 3rd Party Sales	910,000	946,400	984,256	1,023,626	1,064,571	36,400	4.0%	37,856	4.0%	39,370	4.0%
Overstrength Agreements	3,306,825	3,439,098	3,576,662	3,719,729	3,868,518	132,273	4.0%	137,564	4.0%	143,066	4.0%
Sewer Surcharge Agreements	6,511,190	7,005,322	7,285,535	7,576,957	7,880,035	494,132	7.6%	280,213	4.0%	291,421	4.0%
<b>Sub-Total Utility Rates</b>	<b>132,397,110</b>	<b>137,064,502</b>	<b>150,460,436</b>	<b>165,262,978</b>	<b>181,831,582</b>	<b>4,667,392</b>	<b>3.5%</b>	<b>13,395,934</b>	<b>9.8%</b>	<b>14,802,542</b>	<b>9.8%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	265,850	265,850	265,850	265,850	265,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	221,530	230,392	239,607	249,192	259,159	8,861	4.0%	9,216	4.0%	9,584	4.0%
Investment Income	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	221,834	230,707	239,936	249,533	259,514	8,873	4.0%	9,228	4.0%	9,597	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>709,214</b>	<b>726,949</b>	<b>745,393</b>	<b>764,575</b>	<b>784,524</b>	<b>17,735</b>	<b>2.5%</b>	<b>18,444</b>	<b>2.5%</b>	<b>19,182</b>	<b>2.6%</b>
<b>TOTAL REVENUES</b>	<b>133,106,324</b>	<b>137,791,451</b>	<b>151,205,829</b>	<b>166,027,552</b>	<b>182,616,106</b>	<b>4,685,126</b>	<b>3.5%</b>	<b>13,414,378</b>	<b>9.7%</b>	<b>14,821,724</b>	<b>9.8%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>



**CITY OF HAMILTON**  
**2023 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**

**STORM**

	2022	2022	2023	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2022 PROJECTED / 2022 RESTATED BUDGET	ACTUAL	2023 REQUESTED / 2022 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>							
Divisional Administration & Support	637,573	637,573	676,437	-	0.0%	38,864	6.1%
Woodward Upgrades	64,309	64,309	71,182	-	0.0%	6,872	10.7%
Customer Service & Community Outreach	997,568	940,932	1,118,435	56,636	5.7%	120,867	12.1%
Compliance & Regulations	262,736	262,736	284,550	-	0.0%	21,814	8.3%
Water Distribution & Wastewater Collection	3,830,686	3,830,686	3,849,265	-	0.0%	18,579	0.5%
Plant Operations	115,429	123,750	138,421	(8,321)	(7.2%)	22,991	19.9%
Plant Maintenance	702,526	694,334	753,786	8,192	1.2%	51,259	7.3%
Capital Planning & Delivery	492,751	492,751	530,674	-	0.0%	37,922	7.7%
Watershed Management	1,282,313	1,282,313	1,642,718	-	0.0%	360,405	28.1%
Wastewater Abatement Program	-	-	-	-	0.0%	-	0.0%
Alectra Utilities Service Contract	-	-	-	-	0.0%	-	0.0%
Utilities Arrears Program	-	-	-	-	0.0%	-	0.0%
Sewer Lateral Management Program	-	-	-	-	0.0%	-	0.0%
Hamilton Harbour Remedial Action Plan	578,964	578,964	604,011	-	0.0%	25,047	4.3%
Protective Plumbing Program (3P)	752,870	623,928	752,938	128,942	17.1%	68	0.0%
Financial Charges	-	-	-	-	0.0%	-	0.0%
	9,717,725	9,532,275	10,422,415	185,450	1.9%	704,690	7.3%
Capital and Reserve Recoveries	(1,636,344)	(1,636,344)	(1,636,344)	-	0.0%	-	0.0%
<b>Sub-Total</b>	<b>8,081,382</b>	<b>7,895,931</b>	<b>8,786,071</b>	<b>185,450</b>	<b>2.3%</b>	<b>704,690</b>	<b>8.7%</b>

**CITY OF HAMILTON**  
**2023 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**STORM**

	2022 RESTATED BUDGET	2022 PROJECTED ACTUAL	2023 REQUESTED BUDGET	CHANGE		CHANGE	
	\$	\$	\$	2022 PROJECTED / 2022 RESTATED BUDGET	ACTUAL	2023 REQUESTED / 2022 RESTATED BUDGET	%
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Water Quality Initiatives	-	-	-	-		-	
Wastewater	-	-	-	-		-	
Stormwater	11,765,000	12,105,000	14,822,000	(340,000)		3,057,000	26.0%
<b>Sub-Total Contributions to Capital</b>	<b>11,765,000</b>	<b>12,105,000</b>	<b>14,822,000</b>	<b>(340,000)</b>		<b>3,057,000</b>	<b>26.0%</b>
<b><u>Contributions for DC Exemptions</u></b>							
Water Quality Initiatives	-	-	-	-		-	
Wastewater	-	-	-	-		-	
Stormwater	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b><u>Capital Debt Charges</u></b>							
Water Quality Initiatives	-	-	-	-		-	
Wastewater	-	-	-	-		-	
Stormwater	3,584,490	2,969,443	3,780,708	615,047	17.2%	196,218	5.5%
DC Debt Charges Recoveries	(771,723)	(197,617)	(997,711)	(574,106)	74.4%	(225,988)	29.3%
<b>Sub-Total Debt Charges</b>	<b>2,812,767</b>	<b>2,771,826</b>	<b>2,782,997</b>	<b>40,941</b>	<b>1.5%</b>	<b>(29,770)</b>	<b>(1.1%)</b>
<b>Sub-Total Capital Financing</b>	<b>16,467,767</b>	<b>16,766,826</b>	<b>19,494,997</b>	<b>(299,059)</b>	<b>(1.8%)</b>	<b>3,027,230</b>	<b>18.4%</b>
<b>Reserve Transfers</b>	<b>(24,549,149)</b>	<b>(24,662,758)</b>	<b>(28,281,069)</b>	<b>113,609</b>	<b>(0.5%)</b>	<b>(3,731,920)</b>	<b>15.2%</b>
<b>Sub-Total Cap/Reserve Impacts on Operating</b>	<b>(8,081,382)</b>	<b>(7,895,931)</b>	<b>(8,786,071)</b>	<b>(185,450)</b>	<b>2.3%</b>	<b>(704,690)</b>	<b>8.7%</b>
<b>TOTAL EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON  
2023 - 2026 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
STORM**

	2022	2023	2024	2025	2026	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2023 REQUESTED / 2022 RESTATED BUDGET	%	2024 PROJECTED / 2023 REQUESTED BUDGET	%	2025 PROJECTED / 2024 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>											
Divisional Administration & Support	637,573	676,437	703,494	731,634	760,899	38,864	6.1%	27,057	4.0%	28,140	4.0%
Woodward Upgrades	64,309	71,182	74,029	76,990	80,070	6,872	10.7%	2,847	4.0%	2,961	4.0%
Customer Service & Community Outreach	997,568	1,118,435	1,166,591	1,213,254	1,261,784	120,867	12.1%	48,156	4.3%	46,664	4.0%
Compliance & Regulations	262,736	284,550	297,973	309,892	322,288	21,814	8.3%	13,423	4.7%	11,919	4.0%
Water Distribution & Wastewater Collection	3,830,686	3,849,265	4,003,236	4,163,365	4,329,900	18,579	0.5%	153,971	4.0%	160,129	4.0%
Plant Operations	115,429	138,421	144,214	149,983	155,982	22,991	19.9%	5,794	4.2%	5,769	4.0%
Plant Maintenance	702,526	753,786	783,937	815,295	847,906	51,259	7.3%	30,151	4.0%	31,357	4.0%
Capital Planning & Delivery	492,751	530,674	551,901	573,977	596,936	37,922	7.7%	21,227	4.0%	22,076	4.0%
Watershed Management	1,282,313	1,642,718	1,744,007	1,813,767	1,886,318	360,405	28.1%	101,288	6.2%	69,760	4.0%
Wastewater Abatement Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Alectra Utilities Service Contract	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Utilities Arrears Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Sewer Lateral Management Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Hamilton Harbour Remedial Action Plan	578,964	604,011	628,172	653,299	679,430	25,047	4.3%	24,160	4.0%	25,127	4.0%
Protective Plumbing Program (3P)	752,870	752,938	783,055	814,377	846,952	68	0.0%	30,118	4.0%	31,322	4.0%
Financial Charges	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
	9,717,725	10,422,415	10,880,608	11,315,833	11,768,466	704,690	7.3%	458,193	4.4%	435,224	4.0%
Capital and Reserve Recoveries	(1,636,344)	(1,636,344)	(1,701,798)	(1,769,869)	(1,840,664)	-	0.0%	(65,454)	4.0%	(68,072)	4.0%
<b>Sub-Total</b>	<b>8,081,382</b>	<b>8,786,071</b>	<b>9,178,811</b>	<b>9,545,963</b>	<b>9,927,802</b>	<b>704,690</b>	<b>8.7%</b>	<b>392,739</b>	<b>4.5%</b>	<b>367,152</b>	<b>4.0%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>											
<b><u>Contributions to Capital</u></b>											
Stormwater	11,765,000	14,822,000	19,464,107	20,796,374	17,339,000	3,057,000	26.0%	4,642,107	31.3%	1,332,267	6.8%
<b>Sub-Total Contributions to Capital</b>	<b>11,765,000</b>	<b>14,822,000</b>	<b>19,464,107</b>	<b>20,796,374</b>	<b>17,339,000</b>	<b>3,057,000</b>	<b>26.0%</b>	<b>4,642,107</b>	<b>31.3%</b>	<b>1,332,267</b>	<b>6.8%</b>

**CITY OF HAMILTON**  
**2023 - 2026 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**STORM**

	2022 RESTATED BUDGET	2023 REQUESTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	2026 PROJECTED BUDGET	CHANGE 2023 REQUESTED / 2022 RESTATED BUDGET	CHANGE 2024 PROJECTED / 2023 REQUESTED BUDGET	CHANGE 2025 PROJECTED / 2024 PROJECTED BUDGET		
	\$	\$	\$	\$	\$	\$	\$	\$	%	%
<b>Contributions for DC Exemptions</b>										
Stormwater	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	-	-	-	0.0%	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>0.0%</b>
<b>Debt Charges</b>										
Stormwater	3,584,490	3,780,708	7,020,070	10,341,583	11,718,636	196,218	3,239,362	3,321,514	5.5%	85.7%
DC Debt Charges Recoveries	(771,723)	(997,711)	(3,709,425)	(5,930,649)	(6,553,810)	(225,988)	(2,711,715)	(2,221,224)	29.3%	271.8%
<b>Sub-Total Debt Charges</b>	<b>2,812,767</b>	<b>2,782,997</b>	<b>3,310,644</b>	<b>4,410,934</b>	<b>5,164,826</b>	<b>(29,770)</b>	<b>527,647</b>	<b>1,100,290</b>	<b>(1.1%)</b>	<b>19.0%</b>
<b>Sub-Total Capital Financing</b>	<b>16,467,767</b>	<b>19,494,997</b>	<b>24,664,751</b>	<b>27,097,308</b>	<b>24,393,826</b>	<b>3,027,230</b>	<b>5,169,754</b>	<b>2,432,557</b>	<b>18.4%</b>	<b>26.5%</b>
<b>Reserve Transfers</b>	<b>(24,549,149)</b>	<b>(28,281,069)</b>	<b>(33,843,562)</b>	<b>(36,643,272)</b>	<b>(34,321,627)</b>	<b>(3,731,920)</b>	<b>(5,562,493)</b>	<b>(2,799,710)</b>	<b>15.2%</b>	<b>19.7%</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>(8,081,382)</b>	<b>(8,786,071)</b>	<b>(9,178,811)</b>	<b>(9,545,963)</b>	<b>(9,927,802)</b>	<b>(704,690)</b>	<b>(392,739)</b>	<b>(367,152)</b>	<b>8.7%</b>	<b>4.5%</b>
<b>TOTAL EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>0.0%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>0.0%</b>





**HAMILTON WATER  
2023 RATE SUPPORTED STAFFING SUMMARY**

Deptid	Deptid Description	2022	2023	2023	2023	2023
		RESTATED	MAINTENANCE	PROGRAM CHANGES	REQUESTED	REQUESTED vs. 2022 RESTATED
510200	Director Hamilton Water	2.00	2.00	0.00	2.00	0.00
510202	Project Management Office	5.00	5.00	1.00	6.00	1.00
510203	WWW Operations Director	2.00	2.00	0.00	2.00	0.00
510205	Woodward Upgrades	7.00	7.00	0.00	7.00	0.00
510206	Inventory & Fleet Management	6.00	6.00	0.00	6.00	0.00
510210	Customer Service & Community Outreach	2.00	2.00	0.00	2.00	0.00
510215	Education & Outreach	5.65	5.65	0.00	5.65	0.00
510220	Service Co-ordination	22.00	22.00	1.00	23.00	1.00
510230	Engineering Systems & Data Collection	9.00	9.00	0.00	9.00	0.00
510240	Compliance & Regulations	8.00	8.00	0.00	8.00	0.00
510250	Laboratory Services	25.00	25.00	1.00	26.00	1.00
510260	Environmental Monitoring & Enforcement	17.00	17.00	1.00	18.00	1.00
510270	Water Distribution (WD) & Wastewtr Collection (WWC)	5.00	5.00	0.00	5.00	0.00
510275	WD & WWC Contracts	20.00	20.00	1.00	21.00	1.00
510280	WD & WWC Construction	23.00	23.00	0.00	23.00	0.00
510285	WD & WWC Maintenance	19.00	19.00	0.00	19.00	0.00
510290	WD & WWC Operations	23.00	23.00	0.00	23.00	0.00
510295	WD & WWC Storm	8.00	8.00	0.00	8.00	0.00
510300	WWW Planning & Capital Director	2.00	2.00	0.00	2.00	0.00
510310	Plant Operations & Maintenance	9.00	9.00	0.00	9.00	0.00
510320	Plant Maintenance & Technical Services	1.00	1.00	0.00	1.00	0.00
510321	Plant Maintenance	30.00	30.00	0.00	30.00	0.00
510322	Plant SCADA	7.00	7.00	0.00	7.00	0.00
510323	Plant Technical Services	6.00	6.00	0.00	6.00	0.00
510330	Plant Operations	45.00	45.00	1.00	46.00	1.00
510340	Capital Delivery	15.00	15.00	0.00	15.00	0.00
510350	Infrastructure Planning and System Design	19.00	19.00	0.00	19.00	0.00
510360	Watershed Management	5.00	5.00	2.00	7.00	2.00
<b>Total RATE Supported Staff</b>		<b>347.65</b>	<b>347.65</b>	<b>8.00</b>	<b>355.65</b>	<b>8.00</b>

## 2023 Rate Budget - Business Case Summary

**DEPARTMENT:** Public Works

DIVISION	SERVICE / PROGRAM	DESCRIPTION OF PROGRAM ENHANCEMENT	2023 IMPACT			ANNUALIZED IMPACT
			\$ GROSS	\$ NET	FTE Impact	\$ NET
Hamilton Water	Watershed Management	Director to support the Watershed Action Plan.	\$ 217,016	\$ 217,016	1.00	\$ 217,016
Hamilton Water	Watershed Management	Sr. Project Manager to support the Watershed Action Plan.	\$ 142,319	\$ 106,739	1.00	\$ 142,319
Hamilton Water	Plant Operations	Maintenance Operator to support increasing compliance requirements.	\$ 110,612	\$ 82,959	1.00	\$ 110,612
Hamilton Water	Compliance & Regulation	Laboratory Technologist to support the Surface Water Quality Program (SWQP) and other initiatives.	\$ 111,017	\$ 83,263	1.00	\$ 111,017
Hamilton Water	Compliance & Regulation	Regulatory Field Technician to support the Drinking Water Sampling Program and the Wastewater Surveillance Program requested by Public Health Services (PHS)	\$ 103,858	\$ 77,893	1.00	\$ 103,858
Hamilton Water	Customer Service & Community Outreach	Scheduler / Dispatcher to support the Lead Service Line Replacement Program.	\$ 35,333	\$ 26,499	0.50	\$ 35,333
Hamilton Water	Customer Service & Community Outreach	Water Operations Clerk to support the Water Meter Operations and Maintenance Program.	\$ 33,035	\$ 24,776	0.50	\$ 33,035
Hamilton Water	Water Distribution & Wastewater Collection	Contract Inspector to complete Private Water Asset Infrastructure Repair/Replacement Inspections.	\$ 125,958	\$ 47,234	1.00	\$ 62,979
Hamilton Water	Project Management Office	Contract Coordinator to support the Hamilton Water Staff with day-to-day contractual support, and coordinate and process Procurement Policy documents.	\$ 111,017	\$ -	1.00	
<b>Divn Subtotal</b>			<b>\$ 990,165</b>	<b>\$ 666,380</b>	<b>8.00</b>	<b>\$ 816,168</b>
<b>DEPARTMENT TOTAL</b>			<b>\$ 990,165</b>	<b>\$ 666,380</b>	<b>8.00</b>	<b>\$ 816,168</b>

**CITY OF HAMILTON  
2023 WATER AND WASTEWATER/STORM FEES AND CHARGES  
Effective January 1, 2023**

**A) Daily Water & Wastewater/Storm Fixed Charges**

The fixed daily charge is not related to the direct costs of consumption and are not dependent upon or related to the amount of consumption incurred. The fixed charges are intended to offset the fixed costs of maintaining the water, wastewater and storm systems.

Meter Size	Water Rate	Wastewater/ Rate	Storm
15 mm	\$ 0.43	\$	0.47
16 mm	\$ 0.43	\$	0.47
20 mm	\$ 0.43	\$	0.47
21 mm	\$ 0.43	\$	0.47
25 mm	\$ 1.08	\$	1.18
38 mm	\$ 2.15	\$	2.35
50 mm	\$ 3.44	\$	3.76
75 mm	\$ 6.88	\$	7.52
100 mm	\$ 10.75	\$	11.75
150 mm	\$ 21.50	\$	23.50
200 mm	\$ 34.40	\$	37.60
250 mm	\$ 49.45	\$	54.05
300 mm	\$ 73.10	\$	79.90

**B) Metered Water Consumption Charges**

Water consumption shall be charged on a per cubic metre basis at the rates indicated in the table below. The total monthly Water Consumption Charge is the sum of usage in all blocks at the rate for each block.

Consumption Block	Monthly Water Consumption (m3)	Residential Meter Size <25mm	Residential Meter Size =>25mm and Commercial, Institutional & Industrial
		Rate (\$/m3)	Rate (\$/m3)
1	0-10	0.98	1.96
2	>10	1.96	1.96

**C) Wastewater/Storm Treatment Charges**

Wastewater/Storm Treatment Charges are based on metered water consumption and the cost of wastewater collection and treatment, and stormwater management. Charges are on a per cubic metre basis at the rates indicated in the table below. The total monthly Wastewater/Storm Treatment Charge is the sum of usage in all blocks at the rate for each block.

Treatment Block	Monthly Water Consumption (m3)	Residential Meter Size <25mm	Residential Meter Size =>25mm and Commercial, Institutional & Industrial
		Rate (\$/m3)	Rate (\$/m3)
1	0-10	0.98	1.96
2	>10	1.96	1.96

**D) Non-Metered Annual Water & Wastewater/Storm Rate**

Flat Rate Water Customers Annual Rate: \$715.40

Flat Rate Wastewater/Storm Customers Annual Rate: \$715.40

Combined Flat Rate Water & Wastewater/Storm Customers Annual Rate: \$1,430.80

## City of Hamilton - 2023 Private Fire Line Rates

This service shall consist of permanent unmetered connections to the main for the purpose of supplying water to private fire protection systems such as automatic sprinkler systems, standpipes and private hydrants. This service shall also include reasonable quantities of water used for testing check valves and other backflow protection devices.

### Unmetered Service

Size of Connection		Monthly Rate
mm	inches	
25	1	\$ 4.30
38	1.5	\$ 9.88
50	2	\$ 17.18
75	3	\$ 38.66
100	4	\$ 68.72
150	6	\$ 154.63
200	8	\$ 274.89
250	10	\$ 274.89
300	12	\$ 274.89

**PUBLIC WORKS**  
**HAMILTON WATER**

Purposes  
Regular Hours: M - F: 7:00am - 4:30pm  
After Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2022 including HST (if applicable)	2023 Proposed Fee	HST (y/n)	2023 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				<b>WATER DISTRIBUTION</b>						
R84-026	510220	47220	1	<b>Water Meter Permit Fee</b> <b>Note:</b> Charged for first-time meter installations. Includes supply and installation of water meter and remote reading device by the City/meter contractor and related inspection. Approval by the Supervisor of Meter Operations is required for new installation of alternative meter types not shown below.						
			1a)	16mm (5/8"x3/4") Displacement	\$359.70	\$359.70	n	\$359.70	0.0%	Current fee achieves full cost recovery
			1b)	20mm (3/4") Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery
			1c)	21mm (3/4"x1") Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery
			1d)	25mm (1") Displacement	\$559.40	\$559.40	n	\$559.40	0.0%	Current fee achieves full cost recovery
			1e)	38mm (1.5") Displacement	\$951.35	\$1,121.03	n	\$1,121.03	17.8%	To achieve full cost recovery
			1f)	50mm (2") Displacement	\$1,218.80	\$1,284.78	n	\$1,284.78	5.4%	To achieve full cost recovery
			1g)	50mm (2") Compound with strainer	\$3,316.40	\$3,316.40	n	\$3,316.40	0.0%	Current fee achieves full cost recovery
			1h)	100mm (4") Compound with strainer	\$5,304.84	\$5,444.47	n	\$5,444.47	2.6%	To achieve full cost recovery
			1i)	150mm (6") Compound with strainer	\$11,495.85	\$11,495.85	n	\$11,495.85	0.0%	Current fee achieves full cost recovery
			1j)	100mm (4") Fire Service Compound	\$9,108.49	\$11,187.62	n	\$11,187.62	22.8%	To achieve full cost recovery
			1k)	150mm (6") Fire Service Compound	\$14,419.63	\$17,621.08	n	\$17,621.08	22.2%	To achieve full cost recovery
			1l)	200mm (8") Fire Service Compound	\$20,076.77	\$24,358.00	n	\$24,358.00	21.3%	To achieve full cost recovery
			1m)	250mm (10") Fire Service Compound	\$26,293.48	\$31,887.59	n	\$31,887.59	21.3%	To achieve full cost recovery
			1n)	Radio Remote Read Equipment Installation	\$254.24	\$285.90	n	\$285.90	12.5%	To achieve full cost recovery
			1o)	Radio Remote Read Equipment Installation in Chamber	\$1,001.82	\$1,145.70	n	\$1,145.70	14.4%	To achieve full cost recovery
R84-026	510220	45519	2	<b>Water Meter Removal Fee</b> <b>Note:</b> Cost to remove a meter prior to the building being demolished and/or the water service being decommissioned or abandoned. Failure to have the meter removed prior to the building being demolished will incur a meter replacement cost charge. Does not include a turn water off fee, which is required and charged separately as per Section 14 of this schedule.						
			2a)	16mm (5/8"x3/4") Displacement	\$135.15	\$120.55	y	\$136.22	0.8%	To achieve full cost recovery
			2b)	20mm (3/4") Displacement	\$135.15	\$120.55	y	\$136.22	0.8%	To achieve full cost recovery
			2c)	21mm (3/4"x1") Displacement	\$135.15	\$120.55	y	\$136.22	0.8%	To achieve full cost recovery
			2d)	25mm (1") Displacement	\$135.15	\$120.55	y	\$136.22	0.8%	To achieve full cost recovery
			2e)	38mm (1.5") - 250mm (10") Meters (cost depends on size, labour, and meter location)	Cost + 10% OH	Cost + 10% OH	y	Cost + 10% OH	N/A	
R84-026	510220	45519	3	<b>Water Meter Inspection Services</b> <b>Note:</b> Cost for customer requested service relating to meter investigation						
			3a)	Regular Hours Inspection	\$134.97	\$134.35	y	\$151.82	12.5%	To achieve full cost recovery
			3b)	After Hours Inspection	\$181.06	\$167.94	y	\$189.77	4.8%	To achieve full cost recovery
			3c)	Same Day Inspection	\$315.98	\$289.13	y	\$326.72	3.4%	To achieve full cost recovery

\*Costs not specifically addressed in the schedule will be invoiced at Actual Cost plus overhead\*

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**PUBLIC WORKS**  
**HAMILTON WATER**

Purposes  
Regular Hours: M - F: 7:00am - 4:30pm  
After Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2022 including HST (if applicable)	2023 Proposed Fee	HST (y/n)	2023 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026	510220	45608	4	<b>Replacement Cost for Lost Meter</b> <b>Note:</b> Cost to replace a meter that has been lost, stolen or damaged. Includes meter, installation and administrative costs.						
			4a)	15mm (5/8") Displacement	\$321.43	\$284.45	y	\$321.43	0.0%	Current fee achieves full cost recovery
			4b)	16mm (5/8"x3/4") Displacement	\$321.43	\$284.45	y	\$321.43	0.0%	Current fee achieves full cost recovery
			4c)	20mm (3/4") Displacement	\$386.73	\$342.24	y	\$386.73	0.0%	Current fee achieves full cost recovery
			4d)	21mm (3/4"x1") Displacement	\$386.73	\$342.24	y	\$386.73	0.0%	Current fee achieves full cost recovery
			4e)	25mm (1") Displacement	\$460.75	\$407.74	y	\$460.75	0.0%	Current fee achieves full cost recovery
			4f)	38mm (1.5") - 250mm (10") Meters (cost depends on size, labour, and meter location)	Cost + 10% OH	Cost + 10% OH	y	Cost + 10% OH	0.0%	New fee at full cost recovery
R84-026	510220	45690	5	<b>Bench Testing Water Meters</b> <b>Note:</b> Cost to have a water meter tested for accuracy. If the meter tests within the accuracy standards as set out by AWWA then the property owner is responsible for the cost of the test and the replacement cost of the water meter; otherwise cost borne by the City. Fee includes removal of existing meter and installation of replacement meter.						
			5a)	15 mm & 16 mm Diameter	\$491.10	\$491.22	y	\$555.08	13.0%	To achieve full cost recovery
			5b)	16-25mm Diameter - Test where meter has been removed from service within prior 90 days	\$227.86	\$212.85	y	\$240.52	5.6%	To achieve full cost recovery
			5c)	20 mm Diameter	\$554.49	\$558.86	y	\$631.51	13.9%	To achieve full cost recovery
			5d)	25 mm Diameter	\$650.76	\$662.07	y	\$748.14	15.0%	To achieve full cost recovery
			5e)	38 mm Diameter	\$1,309.00	\$1,359.44	y	\$1,536.17	17.4%	To achieve full cost recovery
			5f)	50 mm Diameter	\$1,742.55	\$1,578.14	y	\$1,783.29	2.3%	To achieve full cost recovery
			5g)	100 mm plus diameter (In Situ testing)	\$1,260.68	\$1,243.65	y	\$1,405.33	11.5%	To achieve full cost recovery

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**HAMILTON WATER**

Purposes  
Regular Hours: M - F: 7:00am - 4:30pm  
After Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2022 including HST (if applicable)	2023 Proposed Fee	HST (y/n)	2023 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
10-103	510220	45644	6	<b>Backflow Prevention Program</b> <b>Note:</b> Costs for contractor registration fee, administration fees for processing backflow prevention test reports and survey forms.						
			6a)	Annual Program Registration Fee	\$163.76	\$155.25	y	\$175.43	7.1%	To achieve full cost recovery
			6b)	Test Report receipt and processing (per submission of each test report)	\$72.61	\$64.26	y	\$72.61	0.0%	Current fee achieves full cost recovery
			6c)	Cross Connection Survey Form processing (per form upon submission)	\$194.74	\$183.80	y	\$207.69	6.6%	To achieve full cost recovery
			6d)	Backflow Prevention Device Investigation - Regular Hours	\$171.31	\$153.87	y	\$173.87	1.5%	To achieve full cost recovery
			6e)	Backflow Prevention Device Investigation - After Hours	\$233.80	\$210.96	y	\$238.39	2.0%	To achieve full cost recovery
R84-026	514330	45590	7	<b>Construction Water</b> <b>Note:</b> Charge for unmetered water used for construction prior to meter installation. Paid at the time of submitting building permit payment.						
			7a)	Single Residential (per lot or townhouse)	\$107.90	\$119.45	n	\$119.45	10.7%	Equal to variable water rate increase
			7b)	Multi-residential (per apartment/condo unit)	n/a	\$56.00	n	\$56.00	0.0%	New fee at full cost recovery
			7c)	Industrial/Commercial/Institutional (\$/1,000 sqft of building area or \$/ha where no structure is constructed)		\$39.25	n	\$39.25	0.0%	New fee at full cost recovery
			8	<b>Hydrant/Road Adaptor Fees</b> <b>Note:</b> Costs to install or remove water meter & backflow prevention device. When moving a hydrant/road adaptor from one site to another for the same customer, both removal & installation fees apply. This service requires a usage deposit and a damage deposit.						
R84-026	514330	41208	8a)	Usage Cost (Metered Hauled Water Rate/m <sup>3</sup> )	\$2.65	\$2.94	n	\$2.94	10.9%	Rate is 1.5x volumetric water rate
R84-026	514330	41209	8b)	Hydrant/Road Adaptor Connection/Disconnection Fee (Regular Hours-Fee for Both Services)	\$154.10	\$182.21	n	\$182.21	18.2%	To achieve full cost recovery
R84-026	514330	41209	8c)	Hydrant/Road Adaptor Connection/Disconnection Fee (After Hours/Emergency-Fee for Both S	\$291.20	\$352.52	n	\$352.52	21.1%	To achieve full cost recovery
R84-026	514330	41209	8d)	Non-Refundable Usage Deposit	\$300.00	\$300.00	n	\$300.00	0.0%	Deposit rounded to the nearest \$100
R84-026	514330	41209	8e)	Security/Damage Deposit	\$6,000.00	\$6,000.00	n	\$6,000.00	0.0%	Deposit rounded to the nearest \$100
R84-026	514330	41209	8f)	Hydrant/road adaptor rental fee for initial 7 days	\$82.56	\$87.56	n	\$87.56	6.1%	To achieve full cost recovery
R84-026	514330	41209	8g)	Per Diem hydrant/road adaptor rental fee after initial 7 days	\$6.13	\$6.13	n	\$6.13	0.0%	Current fee achieves full cost recovery
R84-026	514330	41209	8h)	Hydrant Adaptor Backflow Prevention Device Testing (Regular Hours)	\$95.30	\$109.37	n	\$109.37	14.8%	To achieve full cost recovery
R84-026	514330	41209	8i)	Hydrant Adaptor Backflow Prevention Device Testing (After Hours / Emergency)	\$160.10	\$187.74	n	\$187.74	17.3%	To achieve full cost recovery
R84-026	514330	47244	9	<b>Private Water Station Agreement Fees</b> Annual Renewal	\$422.82	\$422.82	n	\$422.82	0.0%	Current fee achieves full cost recovery
R84-026	514330	47232	10	<b>Water Haulage Fees</b>						
			10a)	Annual Water Haulage Permit Fee <b>Note:</b> Annual license fee to utilize the City's public filling stations.	\$65.79	\$63.63	y	\$71.90	9.3%	To achieve full cost recovery
			10b)	Account review <b>Note:</b> Costs charged for administrative services to provide customer account information for personal or taxation purposes.	\$99.76	\$96.28	y	\$108.80	9.1%	To achieve full cost recovery
R84-026	510220	45519	11	<b>General Administration Fees</b>						
			11a)	General Administrative Requests (per hour)/Report Requests	\$79.10	\$70.00	y	\$79.10	0.0%	Current fee achieves full cost recovery
			11b)	Permit Cancellation administrative fee	\$46.67	\$41.30	y	\$46.67	0.0%	Current fee achieves full cost recovery
			11c)	Permit Renewal Fee	\$46.67	\$42.33	y	\$47.83	2.5%	To achieve full cost recovery
			11d)	Lead Line Replacement Loan Application Fee	\$58.67	\$57.91	y	\$65.44	11.5%	To achieve full cost recovery
			11e)	Monthly AMI Manual Meter Read Fee	\$3.46	\$3.06	y	\$3.46	0.0%	Current fee achieves full cost recovery
			11f)	Water Shut-off Admin Fee	\$25.54	\$22.60	y	\$25.54	0.0%	Current fee achieves full cost recovery
			11g)	Water Shut-off Notice on Door	\$36.07	\$31.92	y	\$36.07	0.0%	Current fee achieves full cost recovery
			11h)	AMI Consumption History Fee	\$15.09	\$13.90	y	\$15.71	4.1%	To achieve full cost recovery
			11i)	NSF Fee - Processing fee on all 'returned' payments	\$41.50	\$38.09	y	\$43.04	3.7%	To achieve full cost recovery
			11j)	Coupling Fee (includes cost for one 3/4" 90 meter coupling and one 3/4" straight meter coupling)	n/a	\$37.13	y	\$41.96	0.0%	New fee at full cost recovery

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**PUBLIC WORKS**  
**HAMILTON WATER**

**Purposes**  
Regular Hours: M - F: 7:00am - 4:30pm  
After Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2022 including HST (if applicable)	2023 Proposed Fee	HST (y/n)	2023 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026			<b>12</b>	<b>Water Inspection Services</b> <b>Note:</b> Costs associated with various permit/inspection services related to water services.						
	514330	47235	12a)	Private Water Service Repair/Replacement Inspection (Reg Hours - Max 1 Hour Total	\$110.34	\$102.45	y	\$115.77	4.9%	To achieve full cost recovery
	514330	47235	12b)	Private Water Service Repair/Replacement Inspection (After Hours /Emerg - Max 1 Hour	\$187.81	\$175.21	y	\$197.99	5.4%	To achieve full cost recovery
	514330	45690	12c)	Water Service Abandonment Inspection (Regular Hours - Max 1 Hour Total Labour)	\$98.37	\$91.18	y	\$103.03	4.7%	To achieve full cost recovery
	514330	45690	12d)	Water Service Abandonment Inspection (After Hours / Emergency - Max 1 Hour Total	\$175.83	\$163.94	y	\$185.25	5.4%	To achieve full cost recovery
	514330	45690	12e)	Water Service Inspection for Demolition (Regular Hours - Max 1 Hour Total Labour)	\$98.37	\$91.18	y	\$103.03	4.7%	To achieve full cost recovery
	514330	45690	12f)	Water Service Inspection for Demolition (After Hours / Emergency - Max 1 Hour Total	\$175.83	\$163.94	y	\$185.25	5.4%	To achieve full cost recovery
	514330	45690	12g)	Missed or Cancelled Inspection	\$71.13	\$65.50	y	\$74.02	4.1%	To achieve full cost recovery
R84-026	514330	45679	<b>13</b>	<b>Turning Water Off or On</b> <b>Note:</b> Turning water off at the curb to enable a property owner to complete internal plumbing repairs, or a private water service repair or replacement, and then turning the water back on.						
			13a)	Turning Water On/Off (Regular Hours)	\$130.00	\$136.68	n	\$136.68	5.1%	To achieve full cost recovery
			13b)	Turning Water On/Off (After Hours/Emergency)	\$218.85	\$230.82	n	\$230.82	5.5%	To achieve full cost recovery
			13c)	Turning Water On/Off During the Same Visit (Regular Hours - Max 1/2 Hour Total Labour)	\$87.05	\$91.18	n	\$91.18	4.7%	To achieve full cost recovery
			13d)	Labour)	\$119.45	\$125.41	n	\$125.41	5.0%	To achieve full cost recovery
			13e)	Non-compliance Turn Water Off	\$85.54	\$91.18	n	\$91.18	6.6%	To achieve full cost recovery
			13f)	Non-compliance Turn Water On	\$85.54	\$91.18	n	\$91.18	6.6%	To achieve full cost recovery
R84-026	514330	45636	<b>14</b>	<b>Hydrant Flow Test / Water Quality Flushing</b> <b>Note:</b> Cost to operate a City Fire Hydrant(s) for a maximum of 1 hour total labour.	\$109.27	\$101.46	y	\$114.65	4.9%	To achieve full cost recovery
R84-026	514330	45690	<b>15</b>	<b>Water Quality/Quantity Service Calls</b> <b>Note:</b> Cost for a service call to investigate a water quality/quantity complaint and the issue resides on private property. No charge for water quality/quantity complaints related to issues originating from the City's distribution system. <u>Missed appointments will be billed the corresponding service call rate.</u>						
			15a)	Service Call (Regular Hours - Max 1 Hour Total Labour)	\$98.37	\$91.18	y	\$103.03	4.7%	To achieve full cost recovery
			15b)	Service Call (After Hours - Max 1 Hour Total Labour)	\$175.83	\$163.94	y	\$185.25	5.4%	To achieve full cost recovery
R84-026	510290	45690	<b>16</b>	<b>Hydrant Repair, Replace or Relocate</b> <b>Note:</b> Cost to repair, replace, or relocate a City Fire Hydrant including labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
R84-026	514330	45690	<b>17</b>	<b>Watermain Shutdowns</b> <b>Note:</b> Costs associated with isolating a watermain to facilitate third party work.						
			17a)	Watermain Shutdown / Recharge (Regular Hours-Maximum 1 Hour Total Labour)	\$135.30	\$142.56	n	\$142.56	5.4%	To achieve full cost recovery
			17b)	Watermain Shutdown / Recharge (After Hours / Emergency-Maximum 1 Hour Total Labour)	\$244.46	\$258.09	n	\$258.09	5.6%	To achieve full cost recovery
R84-026	510350	45408	<b>18</b>	<b>Environmental Records Search PRISM Reports related to soil contamination</b> Reports - Environmental Assessments and Master Plans	\$184.19	\$167.07	y	\$188.79	2.5%	To achieve full cost recovery
				- plus fee per page	\$18.11	\$16.42	y	\$18.56	2.5%	To achieve full cost recovery
					\$0.12	\$0.10	y	\$0.12	0.0%	Current fee achieves full cost recovery
R84-026	514330	45690	<b>19</b>	<b>Miscellaneous Water Distribution System Repair</b> <b>Note:</b> Cost for the City to repair damage to the water distribution system caused by a third party. Costs include labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
R84-026	514330	45690	<b>20</b>	<b>Additional Labour Charges</b> <b>Note:</b> Additional labour charge for all services/calls that exceed the allotted labour time. Costs are for a single Water Distribution Operator in minimum increments of 30 minutes.						
			20a)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$27.23	\$35.69	y	\$40.33	48.1%	To achieve full cost recovery
			20b)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$40.91	\$48.53	y	\$54.84	34.1%	To achieve full cost recovery
R84-026			<b>21</b>	<b>Inspection of ICI and Multi-Residential Private Water asset infrastructure repair/replacements.</b> <b>Note:</b> Costs associated with the inspection of ICI and Multi-Residential private water asset infrastructure repair/replacements.						
	514330	47230	21a)	Private Water Service Repair/Replacement Inspection (Reg Hours - Min. 1 Hour Total Labour) - Contract Inspector	n/a	\$105.98	y	\$119.76	0.0%	New fee at full cost recovery
	514330	47230	21b)	Private Water Service Repair/Replacement Inspection (After Hours /Emerg - Min. 2 Hour Labour) - Contract Inspector	n/a	\$228.57	y	\$258.28	0.0%	New fee at full cost recovery
	514330	45690	21c)	Private Water Service Repair/Replacement Inspection (Missed Calls) - Contract Inspector	n/a	\$75.34	y	\$85.13	0.0%	New fee at full cost recovery



**2023 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
 HAMILTON WATER**

**For Billing Purposes**  
 Regular Hours: M - F: 7:00am - 4:30pm  
 After Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2022 including HST (if applicable)	2023 Proposed Fee	HST (y/n)	2023 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
<b>COLLECTION SYSTEM INSPECTION &amp; MAINTENANCE</b>										
06-026			<b>1</b>	<b>Wastewater Inspection Services</b> <b>Note:</b> Costs associated with various permit and inspection services related to sewer laterals for properties.						
	516175	47230	1a)	Private Sewer Lateral Repair/Replacement Inspection (Regular Hours - Maximum 1 Hour Total Labour)	\$114.19	\$105.98	y	\$119.76	4.9%	To achieve full cost recovery
	516175	47230	1b)	Private Sewer Lateral Repair/Replacement Inspection (After Hours / Emergency - Maximum 1 Hour Total Labour)	\$244.14	\$228.57	y	\$258.28	5.8%	To achieve full cost recovery
	516175	45690	1c)	Missed or Cancelled Inspection	\$81.70	\$75.34	y	\$85.13	4.2%	To achieve full cost recovery
	516175	45690	1d)	Mainline Sewer Inspection <b>Note:</b> CCTV inspection of mainline sewers (storm, sanitary or combined). Cost based on linear meter inspection.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
06-026	516175	45690	<b>2</b>	<b>Sewer Related Service Calls</b> <b>Note:</b> Cost for a service call to investigate a sewer related complaint and the issue resides on private property. No charge for sewer complaints related to issues originating from the City's sewer system. <u>Missed appointments will be billed the corresponding service call.</u>						
			2a)	Service Call (Regular Hours - Maximum 1 Hour Total Labour)	\$102.27	\$94.77	y	\$107.09	4.7%	To achieve full cost recovery
			2b)	Service Call (After Hours - Maximum 1 Hour Total Labour)	\$208.49	\$194.91	y	\$220.25	5.6%	To achieve full cost recovery
06-026	516175	45690	<b>3</b>	<b>Sewer Lateral Cleaning and Investigation Fees</b> <b>Note:</b> When a property owner qualifies for the Sewer Lateral Management Program and chooses to hire their own Plumbing Contractor, these prices represent the maximum amounts that will be reimbursed to the property owner for the sewer lateral cleaning and investigation services performed by the independent Plumbing Contractor						
			3a)	Complete Sewer Lateral Investigation - Regular Hours	\$477.20	\$422.30	y	\$477.20	0.0%	Current fee achieves full cost recovery
			3b)	Complete Sewer Lateral Investigation - After Hours	\$527.15	\$512.50	y	\$579.13	9.9%	To achieve full cost recovery
			3c)	Partial Sewer Lateral Cleaning - Regular Hours	\$155.94	\$247.50	y	\$279.68	79.3%	To achieve full cost recovery
			3d)	Partial Sewer Lateral Cleaning - After Hours	\$218.32	\$320.00	y	\$361.60	65.6%	To achieve full cost recovery
			3e)	Abandoned Sewer Lateral Investigation - Regular Hours	\$249.50	\$362.50	y	\$409.63	64.2%	To achieve full cost recovery
			3f)	Abandoned Sewer Lateral Investigation - After Hours	\$311.88	\$362.50	y	\$409.63	31.3%	To achieve full cost recovery
06-026	516175	45690	<b>4</b>	<b>Miscellaneous Wastewater Collection System Repair</b> <b>Note:</b> Cost for the City to repair damage to the wastewater collection system caused by a third party. Costs include labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
06-026	516175	45690	<b>5</b>	<b>Additional Labour Charges</b> <b>Note:</b> Additional labour charge for all services/calls that exceed the allotted labour time. Costs are for a single Wastewater Collection Operator or Contract Inspector in minimum increments of 30 minutes.						
			5a)	1/2 Hour Additional Labour (Regular Hours) - Wastewater Collection	\$26.56	\$35.04	y	\$39.60	49.1%	To achieve full cost recovery
			5b)	1/2 Hour Additional Labour (After Hours) - Wastewater Collection	\$39.83	\$47.56	y	\$53.74	34.9%	To achieve full cost recovery

\*Costs not specifically addressed in the schedule will be invoiced at Actual Cost plus overhead\*

\*\*For general inquiries, please call (905) 546-4426 between 8:30am - 4:30pm\*\*

**PUBLIC WORKS  
HAMILTON WATER**

Dept ID	Account #	Ref #	Service Offered	2022 including HST (if applicable)	2023 Proposed Fee	HST (y/n)	2023 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
<b>LABORATORY SERVICES</b>									
510250	45519		<b>Inorganic Tests:</b>						
		<b>1</b>	<b>Solids</b>						
		1a)	Total Suspended Solids (TSS)	\$24.52	\$22.80	y	\$25.76	5.1%	To achieve full cost recovery
		1b)	TSS plus Volatile Suspended Solids (VSS)	\$24.52	\$23.80	y	\$26.89	9.7%	To achieve full cost recovery
		1c)	Total Solids (TS)	\$21.58	\$20.60	y	\$23.28	7.9%	To achieve full cost recovery
		1d)	TS plus Volatile Solids (VS)	\$22.71	\$21.80	y	\$24.63	8.5%	To achieve full cost recovery
		1e)	Total Dissolved Solids	\$36.27	\$35.00	y	\$39.55	9.0%	To achieve full cost recovery
		<b>2</b>	<b>Skalar</b>						
		2a)	Total Cyanide	\$42.26	\$41.00	y	\$46.33	9.6%	To achieve full cost recovery
		2b)	Phenolics	\$37.97	\$36.90	y	\$41.70	9.8%	To achieve full cost recovery
		2c)	Total Kjeldhal Nitrogen (TKN)	\$36.16	\$34.60	y	\$39.10	8.1%	To achieve full cost recovery
		2d)	Ammonia	\$39.10	\$34.60	y	\$39.10	0.0%	Current fee achieves full cost recovery
		2e)	Dissolved Organic Carbon	\$42.49	\$40.90	y	\$46.22	8.8%	To achieve full cost recovery
		2f)	Total Organic Carbon	\$42.49	\$40.90	y	\$46.22	8.8%	To achieve full cost recovery
		2g)	Reactive Silica	\$34.58	\$33.90	y	\$38.31	10.8%	To achieve full cost recovery
510250	45519	<b>3</b>	<b>Ion Chromatography (IC Scan)</b>	\$56.95	\$50.40	y	\$56.95	0.0%	Current fee achieves full cost recovery
510250	45519	<b>4</b>	<b>PC Titrate</b>						
		4a)	pH	\$18.65	\$17.70	y	\$20.00	7.3%	To achieve full cost recovery
		4b)	Alkalinity	\$18.87	\$18.10	y	\$20.45	8.4%	To achieve full cost recovery
		4c)	Conductivity	\$18.53	\$17.60	y	\$19.89	7.3%	To achieve full cost recovery
		4d)	Fluoride	\$28.02	\$25.50	y	\$28.82	2.8%	To achieve full cost recovery
		5	Turbidity	\$30.28	\$29.00	y	\$32.77	8.2%	To achieve full cost recovery
		6	UV Transmittance	\$28.59	\$27.90	y	\$31.53	10.3%	To achieve full cost recovery
		7	Color Apparent	\$25.88	\$25.40	y	\$28.70	10.9%	To achieves full cost recovery
		8	Color True	\$25.88	\$23.70	y	\$26.78	3.5%	To achieve full cost recovery
		9	O Phosphate	\$32.09	\$31.80	y	\$35.93	12.0%	To achieve full cost recovery
		10	Dissolved O Phosphate	n/a	\$33.60	y	\$37.97	0.0%	New fee at full cost recovery
		11	Chemical Oxygen Demand (COD)	\$42.83	\$38.90	y	\$43.96	2.6%	To achieve full cost recovery
		12	Biochemical Oxygen Demand (BOD)	\$42.60	\$37.70	y	\$42.60	0.0%	Current fee achieves full cost recovery
<b>Microbiology Tests:</b>									
510250	45519	13	Total Coliform/E coli - Presence/Absence	\$30.28	\$28.80	y	\$32.54	7.5%	To achieve full cost recovery
510250	45519	14	Total Coliform/E coli - MPN	\$33.00	\$31.20	y	\$35.26	6.8%	To achieve full cost recovery
510250	45519	15	EC - MPN	\$33.00	\$31.20	y	\$35.26	6.8%	To achieve full cost recovery
510250	45519	16	Heterotrophic Plate Count	\$30.96	\$29.70	y	\$33.56	8.4%	To achieve full cost recovery
510250	45519	17	Micro Examination	\$165.55	\$161.40	y	\$182.38	10.2%	To achieve full cost recovery
510250	45519	18	Microcystin	\$581.95	\$551.00	y	\$622.63	7.0%	To achieve full cost recovery
<b>Metals:</b>									
510250	45519	18	<b>ICP OES</b>						
		18a)	ICP OES Scan (Wastewater)	\$69.04	\$72.30	y	\$81.70	18.3%	To achieve full cost recovery
		18b)	Total Phosphorous	\$31.30	\$28.60	y	\$32.32	3.2%	To achieve full cost recovery
		18c)	Total Dissolved Phosphorous	\$31.30	\$28.60	y	\$32.32	3.2%	To achieve full cost recovery
510250	45519	19	<b>ICP MS</b>						
		19a)	ICP MS Scan	\$69.04	\$72.30	y	\$81.70	18.3%	To achieve full cost recovery
510250	45519	20	<b>AA</b>						
		20a)	Mercury	\$51.64	\$50.90	y	\$57.52	11.4%	To achieve full cost recovery
510250	45519	21	<b>Organics</b>						
		21a)	Caffeine	\$149.50	\$146.70	y	\$165.77	10.9%	To achieve full cost recovery
510250	45519	22	<b>Additional Fees</b>						
		22a)	Weekend surcharge	\$113.00	\$100.00	y	\$113.00	0.0%	Current fee achieves full cost recovery

\*Costs not specifically addressed in the schedule will be invoiced at Actual Cost plus overhead\*

\*\*For general inquiries, please call 905 546 2424 ext 5834\*\*

**2023 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
 HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2022 including HST (if applicable)	2023 Proposed Fee	HST (y/n)	2023 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				<b>ENVIRONMENTAL MONITORING &amp; ENFORCEMENT</b> To Regulate the Discharge of any Matter into the Sanitary, Combined, and Storm Sewer Systems.						
14-090	516175	47232	1	<b>Annual Permit to Discharge Hauled Sewage</b> <b>Note:</b> Cost for administration and processing of annual permits required to haul sewage within Hamilton	\$335.00	\$347.40	n	\$347.40	3.7%	To achieve full cost recovery
			2	<b>Discharge fees for Hauled Sewage generated:</b> <b>Inside the City - Compliant</b> <b>Note:</b> Cost per truck full of sewage containing materials within Sewer Use By-law limit						
14-090	516175	41314	2a)	up to 1000 imperial gallons (4.54 m3) or any part thereof	\$52.18	\$54.11	n	\$54.11	3.7%	To achieve full cost recovery
14-090	516175	41314	2b)	greater than 1000 (4.54 m3) but less than or equal to 3500 Imperial gallons (15.9m3)	\$52.18	\$54.11	n	\$54.11	3.7%	To achieve full cost recovery
14-090	516175	41314	2c)	greater than 3500 (15.9 m3) but less than or equal to 5000 Imperial gallons (22.7 m3)	\$104.35	\$108.21	n	\$108.21	3.7%	To achieve full cost recovery
14-090	516175	41314	2d)	greater than 5000 (22.7 m3) but less than or equal to 8000 Imperial gallons (36.3 m3)	\$156.53	\$162.32	n	\$162.32	3.7%	To achieve full cost recovery
14-090	516175	41314	2e)	greater than 8000 (36.3 m3) but less than or equal to 10000 Imperial gallons (45.43 m3)	\$208.70	\$216.42	n	\$216.42	3.7%	To achieve full cost recovery
			3	<b>Discharge fees for Hauled Sewage generated:</b> <b>Inside the City - Non-Compliant</b> <b>Note:</b> Cost per truck full of sewage containing materials that exceed one or more Sewer Use By law limits						
14-090	516175	41314	3a)	up to 1000 imperial gallons (4.54 m3) or any part thereof	\$52.18	\$54.11	n	\$54.11	3.7%	To achieve full cost recovery
14-090	516175	41314	3b)	greater than 1000 (4.54 m3) but less than or equal to 3500 Imperial gallons (15.9m3)	\$104.35	\$108.21	n	\$108.21	3.7%	To achieve full cost recovery
14-090	516175	41314	3c)	greater than 3500 (15.9 m3) but less than or equal to 5000 Imperial gallons (22.7 m3)	\$156.53	\$162.32	n	\$162.32	3.7%	To achieve full cost recovery
14-090	516175	41314	3d)	greater than 5000 (22.7 m3) but less than or equal to 8000 Imperial gallons (36.3 m3)	\$260.88	\$270.53	n	\$270.53	3.7%	To achieve full cost recovery
14-090	516175	41314	3e)	greater than 8000 (36.3 m3) but less than or equal to 10000 Imperial gallons (45.43 m3)	\$313.06	\$324.64	n	\$324.64	3.7%	To achieve full cost recovery
14-090	516175	41314	4	<b>Holding Tanks for Recreational Vehicles</b> <b>Note:</b> Cost for Recreational Vehicles (RV's) to dump sewer waste at the Mountain Transfer Station	\$8.50	\$8.50	n	\$8.50	0.0%	Current fee achieves full cost recovery
			5	<b>Overstrength Discharge Fees</b> <b>Note:</b> Cost per kilogram of each specified parameter that is in excess of Sewer Use By-law limits, and subject to a Sewer Discharge Permit						
14-090	516080	41315	5a)	Biochemical Oxygen Demand (charge per kg)	\$0.81	\$0.83	n	\$0.83	2.5%	To achieve full cost recovery
14-090	516080	41315	5b)	Total suspended solids (charge per kg)	\$0.66	\$0.67	n	\$0.67	1.5%	To achieve full cost recovery
14-090	516080	41315	5c)	Oil & grease (animal/vegetable) (charge per kg)	\$0.46	\$0.47	n	\$0.47	2.2%	To achieve full cost recovery
14-090	516080	41315	5d)	Total Kjeldahl Nitrogen (charge per kg)	\$1.04	\$1.06	n	\$1.06	1.9%	To achieve full cost recovery
14-090	516080	41315	5e)	Total Phosphorus (charge per kg)	\$2.20	\$2.24	n	\$2.24	1.8%	To achieve full cost recovery
14-090	516080	41317	6	<b>Surcharge Discharge Fee (charge per m3)</b>	\$1.89	\$1.96	n	\$1.96	3.7%	Equal to variable wastewater rate increase

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**2023 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
 HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2022 including HST (if applicable)	2023 Proposed Fee	HST (y/n)	2023 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
			7	<b>Application Fees for Sewer Discharge Permits</b> <b>NOTE:</b> Fee to be paid upon application for Sewer Discharge Permit						
14-090	510260	45519	7a)	Application Fee	\$777.44	\$713.46	y	\$806.21	3.7%	To achieve full cost recovery
14-090	510260	45519	7b)	Wastewater Characterization deposit (optional)	\$500.00	\$500.00	n	\$500.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45519	7c)	Amendment Fee (all permit types)	\$360.99	\$331.28	y	\$374.35	3.7%	To achieve full cost recovery
			8	<b>Administrative Fees for Sewer Discharge Permits</b> <b>Note:</b> Multiple permit holders pay the higher administrative fee (for example, if the permit holder has both an Overstrength Discharge Permit and a Compliance Program Permit, they will pay \$810.00 per quarter)						
14-090	510260	45532	8a)	Overstrength Discharge Permit (charged quarterly)	\$435.00	\$451.10	n	\$451.10	3.7%	To achieve full cost recovery
14-090	510260	45532	8b)	Sanitary Discharge Permit (charged quarterly)	\$435.00	\$451.10	n	\$451.10	3.7%	To achieve full cost recovery
14-090	510260	45532	8c)	Chloride Discharge Permit (charged quarterly)	\$435.00	\$451.10	n	\$451.10	3.7%	To achieve full cost recovery
14-090	510260	45532	8d)	Compliance Discharge Permit (charged quarterly)	\$1,077.00	\$1,116.85	n	\$1,116.85	3.7%	To achieve full cost recovery
14-090	510260	45532	8e)	Conditional Discharge Permit (charged quarterly)	\$1,077.00	\$1,116.85	n	\$1,116.85	3.7%	To achieve full cost recovery
14-090	510260	45532	8f)	Construction Dewatering Discharge Permit (charged quarterly)	\$435.00	\$451.10	n	\$451.10	3.7%	To achieve full cost recovery
14-090	510260	45519	9	<b>Information Requests</b> <b>Note:</b> Fee per property for records search related to Sewer Use By-law historical violations	\$221.17	\$202.97	y	\$229.36	3.7%	To achieve full cost recovery
14-090	510260	45532	10	<b>Wastewater Sampling (optional)</b> <b>Note:</b> Per unit costs to conduct wastewater sampling to determine permit conditions and limits						
			10a)	Wastewater Sampling Vehicle Fee (per kilometer)	\$1.41	\$1.30	y	\$1.46	3.7%	To achieve full cost recovery
			10b)	Wastewater Sampling Equipment Fee (per day)	\$45.73	\$41.97	y	\$47.42	3.7%	To achieve full cost recovery
			10c)	Wastewater Sampling Technician Fee (per hour) Mon - Fr	\$58.14	\$53.35	y	\$60.29	3.7%	To achieve full cost recovery
			10d)	Wastewater Sampling Technician Fee (per hour) Sa	\$87.20	\$80.03	y	\$90.43	3.7%	To achieve full cost recovery
			10e)	Wastewater Sampling Technician Fee (per hour) Sur	\$116.28	\$106.71	y	\$120.58	3.7%	To achieve full cost recovery

\*multiple permit holders pay the higher administrative fee (for example, if the permit holder has both an Overstrength Discharge Permit and a Compliance Program Permit, they will pay \$1,116.85 per quarter).

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**2023 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS**  
**HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2022 including HST (if applicable)	2023 Proposed Fee	HST (y/n)	2023 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				<b>ENVIRONMENTAL MONITORING &amp; ENFORCEMENT Fees related to the Wastewater Abatement Program</b>						
03-272	510260	45532	1	Application Fee (plus cost recovery for peer review if required)	\$493.81	\$453.17	y	\$512.08	3.7%	To achieve full cost recovery
03-272	510260	45532	2	Annual Administration Fee	\$920.95	\$845.16	y	\$955.03	3.7%	To achieve full cost recovery

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## Appendix "H" to Report FCS22054 Page 1 of 1

**SOURCE OF CAPITAL FINANCING**  
**2023 to 2032 RATE PROGRAM CAPITAL BUDGET**  
**\$(000'S)**

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2023 to 2032
<b>TOTAL RATE PROGRAM</b>											
<b>Capital Program</b>	<b>255,306</b>	<b>367,724</b>	<b>307,499</b>	<b>357,554</b>	<b>399,890</b>	<b>429,494</b>	<b>385,056</b>	<b>281,532</b>	<b>252,915</b>	<b>236,893</b>	<b>3,273,863</b>
<b><u>Source of Funding</u></b>											
Subsidy/Other Revenue	3,154	10,280	24,895	17,235	6,775	1,095	735	11,135	8,935	6,775	91,014
Development Charges	72,811	117,014	39,907	149,031	152,752	161,557	148,697	35,782	28,035	16,921	922,507
Reserves & Other Internal Sources	31,096	5,350	5,250	5,250	1,150	-	-	-	-	-	48,096
Contribution from Operating	133,353	144,894	157,599	177,683	206,204	240,967	235,624	234,615	215,945	213,197	1,960,083
External Debt	14,892	90,186	79,849	8,355	33,008	25,874	-	-	-	-	252,164
<b>Total</b>	<b>255,306</b>	<b>367,724</b>	<b>307,499</b>	<b>357,554</b>	<b>399,890</b>	<b>429,494</b>	<b>385,056</b>	<b>281,532</b>	<b>252,915</b>	<b>236,893</b>	<b>3,273,863</b>

Appendix "I" to Report FCS22054 Page 1 of 1

**CITY OF HAMILTON  
2023 - 2032 WATER / WASTEWATER / STORM CAPITAL FINANCING PLAN  
(\$'s)**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2023 - 2032
<b>NET EXPENDITURES FORECAST</b>												
WASTEWATER (NET)	105,784,138	61,123,440	83,442,070	101,613,970	74,017,970	71,791,970	85,886,470	71,411,470	102,445,470	94,281,470	89,156,470	835,170,770
WATER (NET)	56,639,500	72,300,080	121,988,000	101,188,250	90,680,750	119,215,750	126,020,250	118,597,250	102,485,000	89,210,750	92,346,000	1,034,032,080
STORM (NET)	11,765,000	14,822,000	29,650,000	34,645,000	21,339,000	48,205,000	54,935,000	45,615,000	29,685,000	32,453,000	31,695,000	343,044,000
<b>TOTAL NET EXPENDITURES</b>	<b>174,188,638</b>	<b>148,245,520</b>	<b>235,080,070</b>	<b>237,447,220</b>	<b>186,037,720</b>	<b>239,212,720</b>	<b>266,841,720</b>	<b>235,623,720</b>	<b>234,615,470</b>	<b>215,945,220</b>	<b>213,197,470</b>	<b>2,212,246,850</b>
<b>SOURCE OF FINANCING</b>												
DEBT ISSUES	49,100,000	14,892,398	90,185,893	79,848,626	8,354,799	33,008,265	25,874,314	0	0	0	0	252,164,295
TRANSFER FROM OPERATING	125,088,638	133,353,122	144,894,177	157,598,594	177,682,921	206,204,455	240,967,406	235,623,720	234,615,470	215,945,220	213,197,470	1,960,082,555
<b>TOTAL CAPITAL FINANCING</b>	<b>174,188,638</b>	<b>148,245,520</b>	<b>235,080,070</b>	<b>237,447,220</b>	<b>186,037,720</b>	<b>239,212,720</b>	<b>266,841,720</b>	<b>235,623,720</b>	<b>234,615,470</b>	<b>215,945,220</b>	<b>213,197,470</b>	<b>2,212,246,850</b>
<b>OPERATING BUDGET IMPACT</b>												
TRANSFER FROM OPERATING	125,088,638	133,353,122	144,894,177	157,598,594	177,682,921	206,204,455	240,967,406	235,623,720	234,615,470	215,945,220	213,197,470	1,960,082,555
DC EXEMPTION FUNDING	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	90,000,000
DEBT CHARGES (NET)	22,349,172	21,581,306	31,686,772	43,966,990	51,688,134	53,832,050	53,706,894	54,494,013	51,718,181	51,494,857	46,801,574	460,970,772
<b>TOTAL CAPITAL FINANCING COSTS</b>	<b>156,437,810</b>	<b>163,934,428</b>	<b>185,580,949</b>	<b>210,565,584</b>	<b>238,371,055</b>	<b>269,036,505</b>	<b>303,674,300</b>	<b>299,117,733</b>	<b>295,333,651</b>	<b>276,440,077</b>	<b>268,999,044</b>	<b>2,511,053,327</b>

CITY OF HAMILTON 2023-2032 CAPITAL BUDGET FINANCING PLAN RATE SUPPORTED PROGRAM - AFFORDABLE / UNAFFORDABLE \$(000's)							
Year	Projected Gross Cost	Affordable Gross Cost	Subsidy/ Other Revenue	Dev't Charges	Reserves/ & Internal Sources	FINANCING SOURCES	
						Contribution From Operating	External Debt
	\$	\$	\$	\$	\$	\$	\$
2023	255,306	255,306	3,154	72,811	31,096	133,353	14,892
2024	367,724	367,724	10,280	117,014	5,350	144,894	90,186
2025	307,499	307,499	24,895	39,907	5,250	157,599	79,849
2026-2032	2,178,334	2,343,334	52,685	692,775	6,400	1,524,237	67,237
<b>TOTAL</b>	<b>3,108,863</b>	<b>3,273,863</b>	<b>91,014</b>	<b>922,507</b>	<b>48,096</b>	<b>1,960,083</b>	<b>252,164</b>

## Appendix "J" to Report FCS22054 Page 1 of 1

**SOURCE OF CAPITAL FINANCING**  
**2023 to 2032 RATE PROGRAM CAPITAL BUDGET**  
**\$(000'S)**

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2023 to 2032
<b>WATER</b>											
<b>Capital Program</b>	<b>116,724</b>	<b>157,922</b>	<b>124,459</b>	<b>129,889</b>	<b>163,252</b>	<b>178,351</b>	<b>158,558</b>	<b>133,463</b>	<b>110,340</b>	<b>104,443</b>	<b>1,377,399</b>
<b><u>Source of Funding</u></b>											
Subsidy/Other Revenue	2,220	4,420	-	-	-	-	-	-	-	-	6,640
Development Charges	30,403	31,514	23,270	39,208	44,036	52,331	39,961	30,978	21,129	12,097	324,927
Reserves & Other Internal Sources	11,800	-	-	-	-	-	-	-	-	-	11,800
Contribution from Operating	64,300	121,988	101,188	90,681	119,216	126,020	118,597	102,485	89,211	92,346	1,026,032
External Debt	8,000	-	-	-	-	-	-	-	-	-	8,000
<b>Total</b>	<b>116,724</b>	<b>157,922</b>	<b>124,459</b>	<b>129,889</b>	<b>163,252</b>	<b>178,351</b>	<b>158,558</b>	<b>133,463</b>	<b>110,340</b>	<b>104,443</b>	<b>1,377,399</b>



City of Hamilton  
Water System  
2023 Capital Budget Project List  
(\$)

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5142180183	Binbrook - Royal Winter/Binhaven to Fletcher	200,000	-	-	200,000	-	-	-	-	-
	5142380320	RHBP - Twenty Rd Extension - Glover to Trinity Church	565,000	-	-	565,000	-	-	-	-	-
<b>Coordinated - Network Extension Total</b>			<b>765,000</b>	<b>-</b>	<b>-</b>	<b>765,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Coordinated - Other	5142399999	Rates Projects Included in Tax Budget - NOT TO BE SET UP IN PEOPLESOFT	3,770,000	-	-	-	-	-	3,770,000	3,770,000	-
<b>Coordinated - Other Total</b>			<b>3,770,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,770,000</b>	<b>3,770,000</b>	<b>-</b>
Coordinated - Replacement	5142171311	Highway 8 - Bond to Woodleys Lane	930,000	-	-	-	900,000	30,000	30,000	30,000	-
	5142271325	CCBF - Corktown Neighbourhood	300,000	-	-	-	-	300,000	300,000	300,000	-
	5142371113	CCBF - East - Hunter to York	500,000	-	-	-	-	500,000	500,000	500,000	-
	5142371309	Wilson - Victoria to Sherman	5,000,000	-	-	-	-	5,000,000	-	-	5,000,000
	5142371311	CCBF - Morden - Locke To Pearl	210,000	-	-	-	-	210,000	210,000	210,000	-
	5142371315	Jones - Dundurn to West End	400,000	-	-	-	-	400,000	400,000	400,000	-
	5142371341	CCBF - Sherman Resurfacing & TWO-WAY Conversion - Wilson to Burlington	1,100,000	-	-	-	-	1,100,000	1,100,000	1,100,000	-
<b>Coordinated - Replacement Total</b>			<b>8,440,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>900,000</b>	<b>7,540,000</b>	<b>2,540,000</b>	<b>5,000,000</b>	<b>-</b>
Coordinated - Upgrade	5141971313	Sherman - King to south end (LRT Enabling)	1,115,000	910,000	-	-	-	205,000	205,000	-	-
	5141971314	Wentworth - Wilson to King (LRT Enabling)	1,310,000	1,310,000	-	-	-	-	-	-	-
	5142363277	Hwy 5 and 6 MTO Interchange Strategic Upsizing of Existing Watermains	370,000	-	-	-	-	370,000	370,000	-	-
<b>Coordinated - Upgrade Total</b>			<b>2,795,000</b>	<b>2,220,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>575,000</b>	<b>575,000</b>	<b>-</b>	<b>-</b>
Coordinated Replacement (50/50)	5141970012	Sheaffe / Park / Mulberry (Central Neighbourhood (North)) - Coordinated Road Restoration	120,000	-	-	-	-	120,000	120,000	-	-
	5142370000	Rates Share of Road Reconstruction - NOT TO BE SET UP IN PEOPLESOFT	2,480,000	-	-	-	-	2,480,000	2,480,000	-	-
<b>Coordinated Replacement (50/50) Total</b>			<b>2,600,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,600,000</b>	<b>2,600,000</b>	<b>-</b>	<b>-</b>
Enhancement	5142166608	Lynden Water System - Phase 2 Treatment	160,000	-	-	-	-	160,000	160,000	-	-
	5142357545	Water - Computer Model	310,000	-	-	-	-	310,000	310,000	-	-
	5142361503	Advanced Metering Infrastructure (AMI) / Automated Meter Reading (AMR) Implementation - CASH FLOW	3,500,000	-	-	-	3,000,000	500,000	500,000	-	-
	5142363276	PD 13 Ancaster Heights Servicing Strategy	310,000	-	-	-	-	310,000	310,000	-	-
	5142363278	Pressure District 5 Service Level Enhancement	480,000	-	-	-	-	480,000	480,000	-	-
<b>Enhancement Total</b>			<b>4,760,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,000,000</b>	<b>1,760,000</b>	<b>1,760,000</b>	<b>-</b>	<b>-</b>
Expansion / Extension	5141667423	Freelton Well (FDF01) Capacity Increase	550,000	-	-	-	-	550,000	550,000	-	-
	5141796752	PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	1,200,000	-	-	900,000	-	300,000	300,000	-	-
	5142260280	Upper Centennial Watermain Extension	250,000	-	-	-	-	250,000	250,000	-	-
	5142320499	City Initiated Subsurface Priorities Coordinated or Integrated with LRT	1,020,000	-	-	510,000	-	510,000	510,000	-	-
	5142355355	Municipal Easement Identification and Mapping	500,000	-	-	-	-	500,000	500,000	-	-
	5142396011	Intensification Infrastructure Upgrades Program - Water	400,000	-	-	200,000	-	200,000	200,000	-	-
	5142396851	Locke St Trunk Watermain - York - Locke to Cannon @ Caroline (W-19)	2,530,000	-	-	2,530,000	-	-	-	-	-
<b>Expansion / Extension Total</b>			<b>6,450,000</b>	<b>-</b>	<b>-</b>	<b>4,140,000</b>	<b>-</b>	<b>2,310,000</b>	<b>2,310,000</b>	<b>-</b>	<b>-</b>
Feasibility Plans / EA's/ Studies	5142096520	Garner Road Trunk Watermain - Southcote to Wilson (W-09)	11,716,000	-	-	11,716,000	-	-	-	-	-
	5142257800	Water Facility Asset Management Implementation Plan	280,000	-	-	-	-	280,000	280,000	-	-
	5142267510	Water System Studies & Continual Improvement Initiatives	200,000	-	-	-	-	200,000	200,000	-	-
	5142355010	Water Systems Planning Program	650,000	-	-	-	-	650,000	650,000	-	-
	5142355022	Engineering Consultant Watermain Projects	400,000	-	-	-	-	400,000	400,000	-	-
	5142355247	Alterations to the Drinking Water System	170,000	-	-	-	-	170,000	170,000	-	-
	5142355340	Water Distribution Studies	400,000	-	-	-	-	400,000	400,000	-	-
	5142355556	Mapping Update Program	20,000	-	-	-	-	20,000	20,000	-	-
	5142355713	Pressure Districts and Drinking Water System Optimization	460,000	-	-	-	-	460,000	460,000	-	-
	5142366711	Water Treatment Studies Program	300,000	-	-	-	-	300,000	300,000	-	-

**City of Hamilton  
Water System  
2023 Capital Budget Project List  
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
	5142367752	Water Outstations Inspections - Asset Management	870,000	-	-	-	-	-	870,000	870,000	-
Feasibility Plans / EA's/ Studies Total			15,466,000	-	-	11,716,000	-	-	3,750,000	3,750,000	-
Licenses	5142362073	Field Data Systems Program	110,000	-	-	-	-	-	110,000	110,000	-
Licenses Total			110,000	-	-	-	-	-	110,000	110,000	-
Network Extension	5141880886	Pritchard Rd - Connect Watermain from #355 to #601	475,000	-	-	-	-	-	475,000	475,000	-
	5142380381	Fletcher Road Watermain - Binbrook Road to Windwood Drive Extension	632,000	-	-	632,000	-	-	-	-	-
Network Extension Total			1,107,000	-	-	632,000	-	-	475,000	475,000	-
New	5141495551	PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	5,550,000	-	-	5,550,000	-	-	-	-	-
	5141767650	New Greensville Communal Well	150,000	-	-	-	-	-	150,000	150,000	-
	5142361502	Water Meter - Installation/Replacement/Repair - General Maintenance	3,700,000	-	-	-	-	-	3,700,000	3,700,000	-
	5142363275	Security of Supply for PD 18 Suction Side Watermain Twinning	220,000	-	-	-	-	-	220,000	220,000	-
	5142441226	New Water and Wastewater Operations Facilities (CASH FLOWED)	437,500	-	-	-	-	-	437,500	437,500	-
New Total			10,057,500	-	-	5,550,000	-	-	4,507,500	4,507,500	-
Rehabilitation / Renovation	5141166110	Water Treatment Plant - Process Upgrades (CASH FLOWED)	350,000	-	-	350,000	-	-	-	-	-
	5141567520	Stone Church/Garth Water (HDR05) Reservoir	125,000	-	-	-	-	-	125,000	125,000	-
	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	2,000,000	-	-	-	-	-	2,000,000	-	2,000,000
	5141695883	PS HD016 (York and Valley) Capacity Upgrade, Standby Power & Building Expansion (W-26) (CASH FLOWED)	935,000	-	-	841,500	-	-	93,500	93,500	-
	5141760754	Kenilworth Transmission Watermain Renewal	500,000	-	-	-	-	500,000	-	-	-
	5141761777	Beach Trunkmain Rehab	5,500,000	-	-	-	-	5,150,000	350,000	350,000	-
	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	3,320,000	-	-	2,490,000	-	-	830,000	830,000	-
	5141867651	HD007 Highland Rd Reservoir Upgrades	1,400,000	-	-	-	-	-	1,400,000	400,000	1,000,000
	5142160072	Watermain Structural Lining	500,000	-	-	-	-	-	500,000	500,000	-
	5142166110	Water Treatment Plant - Phase 2 Process Upgrades (CASH FLOWED)	1,788,080	-	-	1,669,000	-	-	119,080	119,080	-
	5142167421	HDR11 Woodley Lane Reservoir Upgrades	700,000	-	-	-	-	-	700,000	700,000	-
	5142266320	Woodward Water Treatment Plant - Low Lift Pumping Station Intake Repairs	750,000	-	-	-	-	-	750,000	750,000	-
	5142311101	Road Cut Restoration Program	5,400,000	-	-	-	-	2,250,000	3,150,000	3,150,000	-
	5142357626	Critical Watermain Inspection Program	600,000	-	-	-	-	-	600,000	600,000	-
	5142360072	Watermain Structural Lining	6,200,000	-	-	-	-	-	6,200,000	6,200,000	-
	5142360330	Water Distribution Capital Repairs, Replacement and New Installation Parts	1,200,000	-	-	-	-	-	1,200,000	1,200,000	-
	5142361741	Resetting or Adjusting of Water Utility Structures	250,000	-	-	-	-	-	250,000	250,000	-
	5142366712	Water Maintenance - Rebuild, Replacement and New Capital	100,000	-	-	-	-	-	100,000	100,000	-
	5142366713	Water Maintenance Capital Program	3,000,000	-	-	-	-	-	3,000,000	3,000,000	-
	5142367187	Bulk Water Stations Upgrades	200,000	-	-	-	-	-	200,000	200,000	-
Rehabilitation / Renovation Total			34,818,080	-	-	5,350,500	-	7,900,000	21,567,580	18,567,580	3,000,000
Replacement	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	3,000,000	-	-	2,250,000	-	-	750,000	750,000	-
	5142066310	WTP Pre-Treatment Isolation Valves	300,000	-	-	-	-	-	300,000	300,000	-
	5142201967	New Water WW Billing Services	5,000,000	-	-	-	-	-	5,000,000	5,000,000	-
	5142349555	QA-QC Service Contract Program	150,000	-	-	-	-	-	150,000	150,000	-
	5142360080	Valve Replacement Program	4,320,000	-	-	-	-	-	4,320,000	4,320,000	-
	5142360577	Metallic Watermain Condition Assessment Program	630,000	-	-	-	-	-	630,000	630,000	-
	5142360750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	3,250,000	-	-	-	-	-	3,250,000	3,250,000	-
	5142362078	Substandard Water Service Replacement Program	2,500,000	-	-	-	-	-	2,500,000	2,500,000	-
	5142366111	Woodward WTP - IT Infrastructure Upgrade	250,000	-	-	-	-	-	250,000	250,000	-
	5142366151	SCADA Maintenance Program	275,000	-	-	-	-	-	275,000	275,000	-

**City of Hamilton  
 Water System  
 2023 Capital Budget Project List  
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
	5142371074	Contingency for Unscheduled Works Program	100,000	-	-	-	-	-	100,000	100,000	-
Replacement Total			19,775,000	-	-	2,250,000	-	-	17,525,000	17,525,000	-
Safety/ Security	5142266871	Hamilton Water Capital Security Plan	1,060,000	-	-	-	-	-	1,060,000	1,060,000	-
Safety/ Security Total			1,060,000	-	-	-	-	-	1,060,000	1,060,000	-
Staffing Costs	5142301099	Engineering Services Staffing Costs - Water	4,750,000	-	-	-	-	-	4,750,000	4,750,000	-
Staffing Costs Total			4,750,000	-	-	-	-	-	4,750,000	4,750,000	-
Grand Total			116,723,580	2,220,000	-	30,403,500	3,000,000	8,800,000	72,300,080	64,300,080	8,000,000

**CITY OF HAMILTON  
WATER SYSTEM  
2023 - 2032 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2023		2023		2024		2025		2026		Remaining		Project Total		Start	End	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Year	Year	
Coordinated - Network Extension	5142180183	Binbrook - Royal Winter/Binhaven to Fletcher	470,000	(160,000)	200,000	-	-	-	-	-	-	-	-	-	-	670,000	(160,000)	2021	2029
	5142380320	RHBP - Twenty Rd Extension - Glover to Trinity Church	-	-	565,000	-	-	-	-	-	-	-	-	-	-	565,000	-	2023	2023
	5142480388	Lewis - Barton to Hwy 8	-	-	-	-	564,000	-	-	-	-	-	-	-	-	564,000	-	2023	2030
	5142480950	Frid St. Extension - McMaster Innovation Park to Chatham	-	-	-	-	410,000	410,000	-	-	-	-	-	-	-	410,000	410,000	2024	2032
	5142580580	RHBP - Nebo - 900m s/o Twenty to Dickenson	-	-	-	-	-	-	400,000	-	-	-	-	-	-	400,000	-	2021	2039
	5142880884	RHBP - Dickenson - Nebo to 800m e/o Nebo	-	-	-	-	-	-	-	-	-	-	900,000	-	-	900,000	-	2028	2028
	5142571302	Arvin - Dosco to Jones	-	-	-	-	-	-	1,050,000	1,050,000	-	-	-	-	-	1,050,000	1,050,000	2025	2025
	5142671108	Rymal - Glanaster to Upper Paradise	-	-	-	-	-	-	-	-	340,000	340,000	-	-	-	340,000	340,000	2026	2026
<b>Coordinated - Network Extension Total</b>			<b>470,000</b>	<b>(160,000)</b>	<b>765,000</b>	<b>-</b>	<b>974,000</b>	<b>410,000</b>	<b>1,450,000</b>	<b>1,050,000</b>	<b>340,000</b>	<b>340,000</b>	<b>900,000</b>	<b>-</b>	<b>4,899,000</b>	<b>1,640,000</b>			
Coordinated - Other	5142360501	Watermain Rehabilitation/Replacement Coordinated with Development	-	-	-	-	1,140,000	1,140,000	1,180,000	1,180,000	1,220,000	1,220,000	8,220,000	8,220,000	11,760,000	11,760,000	2024	2046	
	5142399999	Rates Projects Included in Tax Budget - NOT TO BE SET UP IN PEOPLESOFT	-	-	3,770,000	3,770,000	1,560,000	1,560,000	1,260,000	1,260,000	1,260,000	1,260,000	7,560,000	7,560,000	15,410,000	15,410,000	2023	2047	
<b>Coordinated - Other Total</b>			<b>-</b>	<b>-</b>	<b>3,770,000</b>	<b>3,770,000</b>	<b>2,700,000</b>	<b>2,700,000</b>	<b>2,440,000</b>	<b>2,440,000</b>	<b>2,480,000</b>	<b>2,480,000</b>	<b>15,780,000</b>	<b>15,780,000</b>	<b>27,170,000</b>	<b>27,170,000</b>			
Coordinated - Replacement	5142171311	Highway 8 - Bond to Woodleys Lane	867,000	867,000	930,000	30,000	-	-	-	-	-	-	-	-	1,797,000	897,000	2021	2023	
	5142271325	CCBF - Corktown Neighbourhood	400,000	400,000	300,000	300,000	-	-	-	-	-	-	-	-	700,000	700,000	2022	2023	
	5142371113	CCBF - East - Hunter to York	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2023	2023	
	5142371301	Watermain Replacement Coordinated with Roads	-	-	-	-	-	-	-	-	-	-	15,400,000	15,400,000	15,400,000	15,400,000	2027	2046	
	5142371309	Wilson - Victoria to Sherman	-	-	5,000,000	5,000,000	-	-	-	-	-	-	-	-	5,000,000	5,000,000	2023	2026	
	5142371311	CCBF - Morden - Locke To Pearl	-	-	210,000	210,000	-	-	-	-	-	-	-	-	210,000	210,000	2023	2023	
	5142371315	Jones - Dundurn to West End	-	-	400,000	400,000	-	-	-	-	-	-	-	-	400,000	400,000	2023	2023	
	5142371341	CCBF - Sherman Resurfacing & TWO-WAY Conversion - Wilson to Burlington	-	-	1,100,000	1,100,000	-	-	-	-	-	-	-	-	1,100,000	1,100,000	2023	2023	
	5142471202	Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	-	-	1,550,000	1,550,000	-	-	-	-	-	-	1,550,000	1,550,000	2024	2024	
	5142471304	Ferguson/Foster/Walnut/Patrick	-	-	-	-	1,710,000	1,710,000	-	-	-	-	-	-	1,710,000	1,710,000	2022	2024	
	5142471305	Hatt & Bond - King to Market	-	-	-	-	900,000	900,000	-	-	-	-	-	-	900,000	900,000	2021	2024	
	5142471307	Duke - Hess to west end & Robinson - Queen to west end	-	-	-	-	50,000	50,000	300,000	300,000	-	-	-	-	350,000	350,000	2023	2025	
	5142471308	Scenic - Chateau Crt to Upper Paradise	-	-	-	-	1,750,000	1,750,000	-	-	-	-	-	-	1,750,000	1,750,000	2024	2024	
	5142471314	Pinelands / Teal / Garden / Community / Greensfield	-	-	-	-	2,110,000	2,110,000	-	-	-	-	-	-	2,110,000	2,110,000	2024	2024	
	5142471327	Upper Centennial - Rymal to Mud	-	-	-	-	6,100,000	6,100,000	-	-	-	-	-	-	6,100,000	6,100,000	2023	2024	
	5142571201	Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	-	-	-	1,600,000	1,600,000	-	-	-	-	1,600,000	1,600,000	2025	2025	
	5142571305	Upper James - Mohawk to Fennell	-	-	-	-	-	-	3,070,000	3,070,000	-	-	-	-	3,070,000	3,070,000	2025	2025	
	5142571306	Barton - Ottawa to Kenilworth	-	-	-	-	-	-	4,700,000	4,700,000	-	-	-	-	4,700,000	4,700,000	2025	2025	
	5142571315	Strathearne - Brampton to gate at north end	-	-	-	-	-	-	820,000	820,000	-	-	-	-	820,000	820,000	2024	2025	
	5142571322	Barton - Sherman to Ottawa	-	-	-	-	-	-	10,000,000	10,000,000	-	-	-	-	10,000,000	10,000,000	2023	2025	
	5142671103	Rymal - Upper Sherman to Upper Gage	-	-	-	-	-	-	-	-	1,500,000	1,500,000	-	-	1,500,000	1,500,000	2026	2026	
	5142671305	Dundurn - CPR bridge (s/o Main St) to King	-	-	-	-	-	-	-	-	430,000	430,000	-	-	430,000	430,000	2026	2026	
	5142671307	Hatt - Market to east end & York / Kerr	-	-	-	-	-	-	-	-	1,160,000	1,160,000	-	-	1,160,000	1,160,000	2026	2026	
	5142671314	Brampton - Parkdale to Woodward & Brighton	-	-	-	-	-	-	-	-	810,000	810,000	-	-	810,000	810,000	2026	2026	
	5142671323	Fennell - Upper James to Upper Wellington	-	-	-	-	-	-	-	-	670,000	670,000	-	-	670,000	670,000	2026	2026	
	5142671324	Osler - Grant to West Park	-	-	-	-	-	-	-	-	90,000	90,000	810,000	810,000	900,000	900,000	2026	2028	
	5142771104	Rymal - Upper Gage to Upper Ottawa	-	-	-	-	-	-	-	-	950,000	950,000	950,000	950,000	950,000	950,000	2025	2027	
	5142771106	Wentworth - Barton to Burlington	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027	
	5142771109	Southcote - Hwy 403 bridge to Oldoakes /Dorval	-	-	-	-	-	-	-	-	-	-	2,100,000	2,100,000	2,100,000	2,100,000	2027	2027	
	5142771309	Gray - King to Hwy 8	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027	
	5142771312	Aberdeen - Queen to Studholme	-	-	-	-	-	-	-	-	-	-	3,200,000	3,200,000	3,200,000	3,200,000	2027	2027	
	5142771314	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	2,500,000	2,500,000	2,500,000	2,500,000	2027	2027	
	5142771315	Barton St BIA - Wentworth to Sherman	-	-	-	-	-	-	-	-	-	-	3,440,000	3,440,000	3,440,000	3,440,000	2027	2027	
	5142871106	Rymal - Upper Ottawa to Dartnall	-	-	-	-	-	-	-	-	-	-	1,200,000	1,200,000	1,200,000	1,200,000	2024	2028	
	5142871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2028	2028	
	5142871118	Charlton - Walnut to Sherman Access	-	-	-	-	-	-	-	-	-	-	2,700,000	2,700,000	2,700,000	2,700,000	2028	2028	
	5142871303	Burlington & Industrial - Birch to Gage	-	-	-	-	-	-	-	-	-	-	2,820,000	2,820,000	2,820,000	2,820,000	2025	2028	
	5142871304	Birge - Emerald to Cheever	-	-	-	-	-	-	-	-	-	-	240,000	240,000	240,000	240,000	2028	2028	
	5142871307	Barton St BIA - Ferguson to Wentworth	-	-	-	-	-	-	-	-	-	-	4,440,000	4,440,000	4,440,000	4,440,000	2028	2028	
	5142871308	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	2,150,000	2,150,000	2,150,000	2,150,000	2028	2028	
	5142871311	Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	1,640,000	1,640,000	1,640,000	1,640,000	2028	2028	
	5142871312	Cairns / East St N / Spencer / (Hunter Neighbourhood)	-	-	-	-	-	-	-	-	-	-	630,000	630,000	630,000	630,000	2028	2028	
	5142971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	850,000	850,000	850,000	850,000	2029	2029	
	5142971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	2,200,000	2,200,000	2,200,000	2,200,000	2029	2029	
	5142971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	4,000,000	4,000,000	4,000,000	4,000,000	2029	2029	
	5142971117	Green - Carla to Barton	-	-	-	-	-	-	-	-	-	-	1,300,000	1,300,000	1,300,000	1,300,000	2029	2029	
	5142971303	Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	720,000	720,000	720,000	720,000	2029	2029	
	5142971305	Carling / Macklin St S / Olmstead / Tope (Westdale South)	-	-	-	-	-	-	-	-	-	-	680,000	680,000	680,000	680,000	2029	2029	
	5142971310	Upper Wellington - Bryna to Mohawk	-	-	-	-	-	-	-	-	-	-	1,050,000	1,050,000	1,050,000	1,050,000	2029	2029	
	5142971311	Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	820,000	820,000	820,000	820,000	2029	2029	

**CITY OF HAMILTON  
WATER SYSTEM  
2023 - 2032 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2023		2023		2024		2025		2026		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5142971316	Sanford - Main to Cannon	-	-	-	-	-	-	-	-	-	-	1,410,000	1,410,000	1,410,000	1,410,000	2029	2029
	5143071129	Nash – Barton to 350 metres north of Bancroft	-	-	-	-	-	-	-	-	-	-	1,100,000	1,100,000	1,100,000	1,100,000	2030	2030
	5143071303	Hughson - Wilson to Barton	-	-	-	-	-	-	-	-	-	-	550,000	550,000	550,000	550,000	2030	2030
	5143071304	Evans - Wellington to East	-	-	-	-	-	-	-	-	-	-	390,000	390,000	390,000	390,000	2030	2030
	5143071308	Stipeley Neighbourhood (South) - Connaught / Balsam / Dunsmore	-	-	-	-	-	-	-	-	-	-	950,000	950,000	950,000	950,000	2030	2030
<b>Coordinated - Replacement Total</b>			<b>1,267,000</b>	<b>1,267,000</b>	<b>8,440,000</b>	<b>7,540,000</b>	<b>14,170,000</b>	<b>14,170,000</b>	<b>20,490,000</b>	<b>20,490,000</b>	<b>4,660,000</b>	<b>4,660,000</b>	<b>66,240,000</b>	<b>66,240,000</b>	<b>115,267,000</b>	<b>114,367,000</b>		
	5142363277	Hwy 5 and 6 MTO Interchange Strategic Upsizing of Existing Watermains	-	-	370,000	370,000	1,240,000	1,240,000	-	-	-	-	-	-	1,610,000	1,610,000	2023	2024
	5141971313	Sherman - King to south end (LRT Enabling)	1,130,000	40,000	1,115,000	205,000	-	-	-	-	-	-	-	-	2,245,000	245,000	2019	2023
	5141971314	Wentworth - Wilson to King (LRT Enabling)	370,000	(50,000)	1,310,000	-	-	-	-	-	-	-	-	-	1,680,000	(50,000)	2019	2023
	5141971315	Main - Delena to Normanhurst & Normanhurst - Main to Queenston (LRT Enabling)	4,800,000	(230,000)	-	-	5,220,000	800,000	-	-	-	-	-	-	10,020,000	570,000	2019	2024
<b>Coordinated - Upgrade Total</b>			<b>6,300,000</b>	<b>(240,000)</b>	<b>2,795,000</b>	<b>575,000</b>	<b>6,460,000</b>	<b>2,040,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,555,000</b>	<b>2,375,000</b>		
	5141970012	Sheaffe / Park / Mulberry (Central Neighbourhood (North)) - Coordinated Road Restoration	970,000	970,000	120,000	120,000	-	-	-	-	-	-	-	-	1,090,000	1,090,000	2019	2023
	5142370000	Rates Share of Road Reconstruction - NOT TO BE SET UP IN PEOPLESOF	-	-	2,480,000	2,480,000	6,162,000	6,162,000	8,244,000	8,244,000	7,284,000	7,284,000	70,915,000	70,915,000	95,085,000	95,085,000	2023	2032
<b>Coordinated Replacement (50/50) Total</b>			<b>970,000</b>	<b>970,000</b>	<b>2,600,000</b>	<b>2,600,000</b>	<b>6,162,000</b>	<b>6,162,000</b>	<b>8,244,000</b>	<b>8,244,000</b>	<b>7,284,000</b>	<b>7,284,000</b>	<b>70,915,000</b>	<b>70,915,000</b>	<b>96,175,000</b>	<b>96,175,000</b>		
	5142067420	St. Joseph's Tank Pulsation Dampener (HD0025TK)	400,000	400,000	-	-	400,000	400,000	-	-	-	-	-	-	800,000	800,000	2020	2024
<b>Demolition / Disposal Total</b>			<b>400,000</b>	<b>400,000</b>	<b>-</b>	<b>-</b>	<b>400,000</b>	<b>400,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>800,000</b>	<b>800,000</b>		
	5142166608	Lynden Water System - Phase 2 Treatment	400,000	400,000	160,000	160,000	-	-	-	-	-	-	-	-	560,000	560,000	2021	2023
	5142357545	Water - Computer Model	-	-	310,000	310,000	320,000	320,000	330,000	330,000	340,000	340,000	2,310,000	2,310,000	3,610,000	3,610,000	2023	2046
	5142361503	Advanced Metering Infrastructure (AMI) / Automated Meter Reading (AMR) Implementation - CASH FLOW	-	-	3,500,000	500,000	7,250,000	7,250,000	7,250,000	7,250,000	-	-	-	-	18,000,000	15,000,000	2023	2025
	5142363276	PD 13 Ancaster Heights Servicing Strategy	-	-	310,000	310,000	370,000	370,000	1,150,000	1,150,000	-	-	-	-	1,830,000	1,830,000	2023	2025
	5142363278	Pressure District 5 Service Level Enhancement	-	-	480,000	480,000	-	-	-	-	-	-	-	-	480,000	480,000	2023	2023
	5142451355	Portable Equipment for the Supply of Drinking Water at Public Events	-	-	-	-	85,000	85,000	-	-	-	-	-	-	85,000	85,000	2024	2024
<b>Enhancement Total</b>			<b>400,000</b>	<b>400,000</b>	<b>4,760,000</b>	<b>1,760,000</b>	<b>8,025,000</b>	<b>8,025,000</b>	<b>8,730,000</b>	<b>8,730,000</b>	<b>340,000</b>	<b>340,000</b>	<b>2,310,000</b>	<b>2,310,000</b>	<b>24,565,000</b>	<b>21,565,000</b>		
	5141667423	Freelton Well (FDF01) Capacity Increase	570,000	570,000	550,000	550,000	-	-	-	-	-	-	-	-	1,120,000	1,120,000	2016	2023
	5141796752	PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	2,200,000	1,878,000	1,200,000	300,000	8,220,000	2,055,000	-	-	-	-	-	-	11,620,000	4,233,000	2017	2024
	5141995951	PS HD019 (Binbrook) Capacity Upgrade (W-20)	20,000	20,000	-	-	820,000	-	-	-	3,100,000	-	-	-	3,940,000	20,000	2019	2026
	5142320499	City Initiated Subsurface Priorities Coordinated or Integrated with LRT	-	-	1,020,000	510,000	3,010,000	1,505,000	3,010,000	1,505,000	3,010,000	1,505,000	-	-	10,050,000	5,025,000	2023	2026
	5142355355	Municipal Easement Identification and Mapping	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2023	2023
	5142495251	Highland Reservoir HDR07 (W-11) Expansion (CASH FLOWED)	-	-	-	-	2,130,000	-	5,700,000	-	5,860,000	-	-	-	13,690,000	-	2021	2026
	5142596250	HD07A Feedermain (W-22)	-	-	-	-	-	-	1,360,000	-	8,580,000	-	-	-	9,940,000	-	2021	2026
	5142396011	Intensification Infrastructure Upgrades Program - Water	-	-	400,000	200,000	-	-	400,000	200,000	-	-	1,200,000	600,000	2,000,000	1,000,000	2023	2047
	5143080081	South Service Rd - Millen to Dewitt	-	-	-	-	-	-	-	-	-	-	2,280,000	-	2,280,000	-	2023	2044
	5143080380	South Service Rd - Fruitland to Jones	-	-	-	-	-	-	-	-	-	-	1,280,000	-	1,280,000	-	2023	2030
	5143180180	Glover - Barton to South Service Rd Extension	-	-	-	-	-	-	-	-	-	-	790,000	-	790,000	-	2024	2031
	5143180182	Shaver - Kastura to Westview	-	-	-	-	-	-	-	-	-	-	925,000	693,750	925,000	693,750	2031	2032
	5143180381	Dewitt CNR Tracks to Barton	-	-	-	-	-	-	-	-	-	-	610,000	-	610,000	-	2024	2031
	5143280280	Jones - Barton to South Service	-	-	-	-	-	-	-	-	-	-	1,310,000	-	1,310,000	-	2024	2032
	5142260280	Upper Centennial Watermain Extension	500,000	500,000	250,000	250,000	-	-	-	-	-	-	-	750,000	750,000	2022	2023	
	5142396851	Locke St Trunk Watermain - York - Locke to Cannon @ Caroline (W-19)	-	-	2,530,000	-	-	-	-	-	-	-	-	-	2,530,000	-	2023	(blank)
	5142496850	Locke St Trunk Watermain - Main to York (W-19)	-	-	-	-	2,200,000	-	-	-	-	-	-	-	2,200,000	-	2024	2024
<b>Expansion / Extension Total</b>			<b>3,290,000</b>	<b>2,968,000</b>	<b>6,450,000</b>	<b>2,310,000</b>	<b>16,380,000</b>	<b>3,560,000</b>	<b>10,470,000</b>	<b>1,705,000</b>	<b>20,550,000</b>	<b>1,505,000</b>	<b>8,395,000</b>	<b>1,293,750</b>	<b>65,535,000</b>	<b>13,341,750</b>		
	5142255264	City-Wide Water Master Plan	280,000	-	-	-	-	-	-	-	-	-	700,000	-	980,000	-	2022	2028
	5142257800	Water Facility Asset Management Implementation Plan	100,000	100,000	280,000	280,000	110,000	110,000	-	-	-	-	-	-	490,000	490,000	2022	2024
	5142267510	Water System Studies & Continual Improvement Initiatives	1,100,000	1,100,000	200,000	200,000	-	-	-	-	-	-	-	-	1,300,000	1,300,000	2022	2023
	5142355010	Water Systems Planning Program	-	-	650,000	650,000	670,000	670,000	690,000	690,000	710,000	710,000	4,690,000	4,690,000	7,410,000	7,410,000	2023	2047
	5142355247	Alterations to the Drinking Water System	-	-	170,000	170,000	180,000	180,000	190,000	190,000	200,000	200,000	1,410,000	1,410,000	2,150,000	2,150,000	2023	2032
	5142355340	Water Distribution Studies	-	-	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	-	-	1,600,000	1,600,000	2023	2026
	5142355713	Pressure Districts and Drinking Water System Optimization	-	-	460,000	460,000	200,000	200,000	210,000	210,000	220,000	220,000	1,530,000	1,530,000	2,620,000	2,620,000	2022	2032
	5142355851	Water Efficiency Plan/Program	-	-	-	-	120,000	120,000	122,000	122,000	124,000	124,000	824,000	824,000	1,190,000	1,190,000	2024	2047
	5142366711	Water Treatment Studies Program	-	-	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	-	-	1,200,000	1,200,000	2023	2026
	5142367752	Water Outstations Inspections - Asset Management	-	-	870,000	870,000	900,000	900,000	930,000	930,000	960,000	960,000	6,390,000	6,390,000	10,050,000	10,050,000	2023	2046
	5143066151	2030 SCADA Master Plan	-	-	-	-	-	-	-	-	-	-	7,625,000	7,625,000	7,625,000	7,625,000	2029	2034

**CITY OF HAMILTON  
 WATER SYSTEM  
 2023 - 2032 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2023		2023		2024		2025		2026		Remaining		Project Total		Start Year	End Year	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net			
	5142096520	Garner Road Trunk Watermain - Southcote to Wilson (W-09)	19,250,000	(3,390,000)	11,716,000	-	-	-	-	-	-	-	-	-	-	30,966,000	(3,390,000)	2020	2023
	5142355022	Engineering Consultant Watermain Projects	-	-	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	2,400,000	2,400,000	4,000,000	4,000,000	2023	2047	
	5142355556	Mapping Update Program	-	-	20,000	20,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	380,000	380,000	2023	2047	
<b>Feasibility Plans / EA's/ Studies Total</b>			<b>20,730,000</b>	<b>(2,190,000)</b>	<b>15,466,000</b>	<b>3,750,000</b>	<b>3,320,000</b>	<b>3,320,000</b>	<b>3,282,000</b>	<b>3,282,000</b>	<b>3,354,000</b>	<b>3,354,000</b>	<b>25,809,000</b>	<b>25,109,000</b>	<b>71,961,000</b>	<b>36,625,000</b>			
Licenses	5142362073	Field Data Systems Program	-	-	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,100,000	1,100,000	2023	2047	
<b>Licenses Total</b>			<b>-</b>	<b>-</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>660,000</b>	<b>660,000</b>	<b>1,100,000</b>	<b>1,100,000</b>			
New	5141395354	PD18 (Ancaster) Water Servicing Strategy (W-14) (CASH FLOWED)	220,000	(180,000)	-	-	6,850,000	3,425,000	7,050,000	3,525,000	-	-	-	-	14,120,000	6,770,000	2013	2025	
	5141495551	PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	7,250,000	1,750,000	5,550,000	-	5,150,000	-	-	-	-	-	-	-	17,950,000	1,750,000	2014	2024	
	5141767650	New Greensville Communal Well	470,000	470,000	150,000	150,000	3,500,000	3,500,000	3,500,000	3,500,000	-	-	-	-	7,620,000	7,620,000	2017	2025	
	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)	230,000	230,000	-	-	6,150,000	6,150,000	-	-	-	-	-	-	6,380,000	6,380,000	2018	2024	
	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station	120,000	120,000	-	-	3,150,000	3,150,000	-	-	-	-	-	-	3,270,000	3,270,000	2021	2024	
	5142351110	Fleet Additions	-	-	-	-	-	-	130,000	130,000	550,000	550,000	600,000	600,000	1,280,000	1,280,000	2025	2047	
	5142361502	Water Meter - Installation/Replacement/Repair - General Maintenance	-	-	3,700,000	3,700,000	3,811,000	3,811,000	3,925,000	3,925,000	4,043,000	4,043,000	26,938,000	26,938,000	42,417,000	42,417,000	2023	2047	
	5142363275	Security of Supply for PD 18 Suction Side Watermain Twinning	-	-	220,000	220,000	550,000	550,000	-	-	-	-	-	-	770,000	770,000	2023	2024	
	5142441226	New Water and Wastewater Operations Facilities (CASH FLOWED)	-	-	437,500	437,500	1,062,500	1,062,500	1,062,500	1,062,500	2,562,500	2,562,500	2,562,500	2,562,500	7,687,500	7,687,500	2023	2027	
	5142467224	New PD2 Water Pumping Station (CASH FLOWED)	150,000	150,000	-	-	-	-	1,280,000	1,280,000	6,180,000	6,180,000	6,370,000	6,370,000	13,980,000	13,980,000	2022	2027	
	5142495552	P.S. HD07A - New District 7 (Elfrida area) Pumping Station (W-21)	-	-	-	-	290,000	-	-	-	3,630,000	-	21,620,000	-	25,540,000	-	2024	2028	
	<b>New Total</b>			<b>8,440,000</b>	<b>2,540,000</b>	<b>10,057,500</b>	<b>4,507,500</b>	<b>30,513,500</b>	<b>21,648,500</b>	<b>16,947,500</b>	<b>13,422,500</b>	<b>16,965,500</b>	<b>13,335,500</b>	<b>58,090,500</b>	<b>36,470,500</b>	<b>141,014,500</b>	<b>91,924,500</b>		
	Rehabilitation / Renovation	5141166110	Water Treatment Plant - Process Upgrades (CASH FLOWED)	26,509,000	26,509,000	350,000	-	-	-	-	-	-	-	-	-	26,859,000	26,509,000	2011	2042
5141269250		HVAC system Upgrades at New Environmental Laboratory and Administration Building	5,420,000	5,420,000	-	-	3,110,000	3,110,000	880,000	880,000	-	-	-	-	9,410,000	9,410,000	2011	2025	
5141567520		Stone Church/Garth Water (HDR05) Reservoir	5,312,000	5,312,000	125,000	125,000	4,175,000	4,175,000	3,125,000	3,125,000	-	-	-	-	12,737,000	12,737,000	2015	2025	
5141567575		High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	4,500,000	4,500,000	2,000,000	2,000,000	-	-	-	-	-	-	-	-	6,500,000	6,500,000	2015	2023	
5141667421		Glancastr Rd & Hwy 53 Pumping Station (HD018) Upgrades (CASH FLOWED)	10,510,000	10,510,000	-	-	-	-	-	-	-	-	5,500,000	5,500,000	16,010,000	16,010,000	2016	2029	
5141695883		PS HD016 (York and Valley) Capacity Upgrade, Standby Power & Building Expansion (W-26) (CASH FLOWED)	5,890,000	4,630,000	935,000	93,500	75,000	7,500	8,390,000	839,000	4,150,000	415,000	-	-	19,440,000	5,985,000	2016	2026	
5141795850		Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	24,670,000	13,697,500	3,320,000	830,000	4,570,000	1,142,500	570,000	142,500	625,000	156,250	44,155,000	11,038,750	77,910,000	27,007,500	2017	2029	
5141867651		HD007 Highland Rd Reservoir Upgrades	200,000	200,000	1,400,000	1,400,000	-	-	-	-	-	-	-	-	1,600,000	1,600,000	2018	2023	
5142067450		Lee Smith Reservoir (HDR00) Upgrades	750,000	750,000	-	-	750,000	750,000	-	-	-	-	-	-	1,500,000	1,500,000	2020	2024	
5142166110		Water Treatment Plant - Phase 2 Process Upgrades (CASH FLOWED)	2,756,000	2,129,000	1,788,080	119,080	6,803,000	4,685,000	4,810,000	2,692,000	28,010,000	15,681,000	311,460,000	174,366,000	355,627,080	199,672,080	2021	2032	
5142167420		HDR18 Glancastr Reservoir Upgrades	80,000	80,000	-	-	1,100,000	1,100,000	1,400,000	1,400,000	-	-	-	-	2,580,000	2,580,000	2021	2025	
5142167421		HDR11 Woodley Lane Reservoir Upgrades	1,770,000	1,770,000	700,000	700,000	1,200,000	1,200,000	-	-	-	-	-	-	3,670,000	3,670,000	2021	2024	
5142266320		Woodward Water Treatment Plant - Low Lift Pumping Station Intake Repairs	500,000	500,000	750,000	750,000	-	-	-	-	-	-	-	-	1,250,000	1,250,000	2022	2023	
5142267585		Diesel Fuel Storage Compliance Upgrades	300,000	300,000	-	-	600,000	600,000	-	-	-	-	-	-	900,000	900,000	2022	2024	
5142360330		Water Distribution Capital Repairs, Replacement and New Installation Parts	-	-	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	-	-	4,800,000	4,800,000	2023	2026	
5142361741		Resetting or Adjusting of Water Utility Structures	-	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,500,000	2,500,000	2023	2047	
5142366712		Water Maintenance - Rebuild, Replacement and New Capital	-	-	100,000	100,000	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	1,200,000	1,900,000	1,900,000	2023	2046	
5142366713		Water Maintenance Capital Program	-	-	3,000,000	3,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	21,000,000	21,000,000	2023	2046	
5142367187		Bulk Water Stations Upgrades	-	-	200,000	200,000	200,000	200,000	1,250,000	1,250,000	-	-	-	-	1,650,000	1,650,000	2023	2025	
5142369075		City Environmental Lab Improvements Program	-	-	-	-	180,000	180,000	295,000	295,000	895,000	895,000	1,312,000	1,312,000	2,682,000	2,682,000	2024	2047	
5142667751		Water Outstation Upgrades - Asset Management Program	-	-	-	-	-	-	-	-	8,200,000	8,200,000	49,200,000	49,200,000	57,400,000	57,400,000	2023	2047	
5141760754		Kenilworth Transmission Watermain Renewal	2,600,000	2,600,000	500,000	-	-	-	-	-	-	-	-	-	3,100,000	2,600,000	2017	2023	
5141761777		Beach Trunkmain Rehab	9,200,000	9,200,000	5,500,000	350,000	-	-	-	-	-	-	-	-	14,700,000	9,550,000	2017	2023	
5142160072		Watermain Structural Lining	13,000,000	13,000,000	500,000	500,000	-	-	-	-	-	-	-	-	13,500,000	13,500,000	2021	2046	
5142311101		Road Cut Restoration Program	-	-	5,400,000	3,150,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	32,400,000	54,000,000	51,750,000	2023	2047	
5142357626		Critical Watermain Inspection Program	-	-	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,000,000	6,000,000	2023	2047	
5142360072		Watermain Structural Lining	-	-	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	37,200,000	37,200,000	62,000,000	62,000,000	2023	2047	
5142661308	James and Charlton Intersection	-	-	-	-	-	-	-	-	940,000	940,000	-	-	940,000	940,000	2026	2026		
5142860072	WM Structural Lining - Dundas Valley Watermain	-	-	-	-	-	-	-	-	-	-	1,550,000	1,550,000	1,550,000	1,550,000	2028	2028		
5142860073	Structural Watermain Lining - Charlton Ave 750mm	-	-	-	-	-	-	-	-	-	-	2,680,000	2,680,000	2,680,000	2,680,000	2028	2029		
<b>Rehabilitation / Renovation Total</b>			<b>113,967,000</b>	<b>101,107,500</b>	<b>34,818,080</b>	<b>21,567,580</b>	<b>38,613,000</b>	<b>33,000,000</b>	<b>36,570,000</b>	<b>26,473,500</b>	<b>58,670,000</b>	<b>42,137,250</b>	<b>503,757,000</b>	<b>333,546,750</b>	<b>786,395,080</b>	<b>557,832,580</b>			

**CITY OF HAMILTON**  
**WATER SYSTEM**  
**2023 - 2032 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2023		2023		2024		2025		2026		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Replacement	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning	190,000	190,000	-	-	4,120,000	4,120,000	-	-	-	-	-	-	4,310,000	4,310,000	2015	2024
	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	480,000	23,000	3,000,000	750,000	4,350,000	1,087,500	645,000	161,250	-	-	-	-	8,475,000	2,021,750	2015	2025
	5142066310	WTP Pre-Treatment Isolation Valves	1,600,000	1,600,000	300,000	300,000	-	-	-	-	-	-	-	-	1,900,000	1,900,000	2020	2023
	5142201967	New Water WW Billing Services	-	-	5,000,000	5,000,000	5,000,000	5,000,000	-	-	-	-	-	-	10,000,000	10,000,000	2023	2024
	5142360750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	-	-	3,250,000	3,250,000	3,250,000	3,250,000	3,000,000	3,000,000	3,000,000	3,000,000	18,000,000	18,000,000	30,500,000	30,500,000	2023	2047
	5142362078	Substandard Water Service Replacement Program	-	-	2,500,000	2,500,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	20,500,000	20,500,000	2023	2047
	5142366111	Woodward WTP - IT Infrastructure Upgrade	-	-	250,000	250,000	-	-	-	-	-	-	-	-	250,000	250,000	2023	2023
	5142366151	SCADA Maintenance Program	-	-	275,000	275,000	275,000	275,000	900,000	900,000	275,000	275,000	2,150,000	2,150,000	3,875,000	3,875,000	2023	2046
	5142366510	GAC Replacement	-	-	-	-	-	-	-	-	-	-	6,600,000	6,600,000	6,600,000	6,600,000	2026	2032
	5142349555	QA-QC Service Contract Program	-	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,500,000	1,500,000	2023	2047
	5142360080	Valve Replacement Program	-	-	4,320,000	4,320,000	1,950,000	1,950,000	1,780,000	1,780,000	1,640,000	1,640,000	8,110,000	8,110,000	17,800,000	17,800,000	2023	2047
	5142360577	Metallic Watermain Condition Assessment Program	-	-	630,000	630,000	630,000	630,000	630,000	630,000	630,000	630,000	3,780,000	3,780,000	6,300,000	6,300,000	2023	2047
	5142360711	PW Capital Water Consumption Program	-	-	-	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,250,000	2,250,000	2024	2047
	5142361300	Stand-Alone Watermain Replacement	-	-	-	-	-	-	-	-	-	-	6,500,000	6,500,000	6,500,000	6,500,000	2028	2047
	5142371074	Contingency for Unscheduled Works Program	-	-	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	600,000	600,000	1,000,000	1,000,000	2023	2047
	5142461302	Bold - Queen to Locke	-	-	-	-	700,000	700,000	-	-	-	-	-	-	700,000	700,000	2021	2024
	5142461304	Watermain Replacement under Rail Tracks at Ferguson	-	-	-	-	300,000	300,000	-	-	-	-	-	-	300,000	300,000	2024	2024
	5142461309	Mylar - Sanford to Milton/Milton - Barton to Princess	-	-	-	-	700,000	700,000	-	-	-	-	-	-	700,000	700,000	2024	2026
	5142472304	Bridge 451 - Hwy 5 E, 120m e/o Mill St S	-	-	-	-	300,000	300,000	-	-	-	-	-	-	300,000	300,000	2024	2031
	5142561305	John - Cannon to Barton	-	-	-	-	-	-	980,000	980,000	-	-	-	-	980,000	980,000	2025	2028
	5142661301	Robinson - Hess to Park	-	-	-	-	-	-	-	-	950,000	950,000	-	-	950,000	950,000	2021	2026
	5142661306	Amelia - Queen to West End	-	-	-	-	-	-	-	-	560,000	560,000	-	-	560,000	560,000	2026	2026
	5142661307	Dallas - Upper Gage to West End	-	-	-	-	-	-	-	-	630,000	630,000	-	-	630,000	630,000	2026	2026
	5142760311	George - Queen to Ray	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2027	2027
	5142761302	Edgemont - Main to King	-	-	-	-	-	-	-	-	-	-	660,000	660,000	660,000	660,000	2021	2028
	5142861302	Edward - Barnesdale to Lottridge	-	-	-	-	-	-	-	-	-	-	360,000	360,000	360,000	360,000	2028	2028
	5142861303	Hess - Markland to Aberdeen	-	-	-	-	-	-	-	-	-	-	460,000	460,000	460,000	460,000	2028	2028
	5142961301	Clinton(Case)\Ruth\Barnesdale	-	-	-	-	-	-	-	-	-	-	1,810,000	1,810,000	1,810,000	1,810,000	2029	2029
5143060310	Princess/Westinghouse/Milton/Fullerton/Gibson/Earl	-	-	-	-	-	-	-	-	-	-	4,200,000	4,200,000	4,200,000	4,200,000	2030	2030	
5143061303	Caroline - Herkimer to Robinson	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2030	2030	
<b>Replacement Total</b>			<b>2,270,000</b>	<b>1,813,000</b>	<b>19,775,000</b>	<b>17,525,000</b>	<b>24,075,000</b>	<b>20,812,500</b>	<b>10,435,000</b>	<b>9,951,250</b>	<b>10,185,000</b>	<b>10,185,000</b>	<b>68,470,000</b>	<b>68,470,000</b>	<b>135,210,000</b>	<b>128,756,750</b>		
Safety/ Security	5142266871	Hamilton Water Capital Security Plan	1,030,000	1,030,000	1,060,000	1,060,000	1,130,000	1,130,000	790,000	790,000	450,000	450,000	80,000	80,000	4,540,000	4,540,000	2022	2031
<b>Safety/ Security Total</b>			<b>1,030,000</b>	<b>1,030,000</b>	<b>1,060,000</b>	<b>1,060,000</b>	<b>1,130,000</b>	<b>1,130,000</b>	<b>790,000</b>	<b>790,000</b>	<b>450,000</b>	<b>450,000</b>	<b>80,000</b>	<b>80,000</b>	<b>4,540,000</b>	<b>4,540,000</b>		
Staffing Costs	5142301099	Engineering Services Staffing Costs - Water	-	-	4,750,000	4,750,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	45,250,000	45,250,000	2023	2047
<b>Staffing Costs Total</b>			<b>-</b>	<b>-</b>	<b>4,750,000</b>	<b>4,750,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>27,000,000</b>	<b>27,000,000</b>	<b>45,250,000</b>	<b>45,250,000</b>		
Network Extension	5141880886	Pritchard Rd - Connect Watermain from #355 to #601	80,000	80,000	475,000	475,000	-	-	-	-	-	-	-	-	555,000	555,000	2018	2023
	5142380381	Fletcher Road Watermain - Binbrook Road to Windwood Drive Extension	-	-	632,000	-	-	-	-	-	-	-	-	-	632,000	-	2023	2023
	5142480480	Fletcher Road Watermain - Binbrook Rd to Pumpkin Pass	-	-	-	-	389,000	-	-	-	-	-	-	-	389,000	-	2024	2024
<b>Network Extension Total</b>			<b>80,000</b>	<b>80,000</b>	<b>1,107,000</b>	<b>475,000</b>	<b>389,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,576,000</b>	<b>555,000</b>		
<b>Grand Total</b>			<b>159,614,000</b>	<b>109,985,500</b>	<b>116,723,580</b>	<b>72,300,080</b>	<b>157,921,500</b>	<b>121,988,000</b>	<b>124,458,500</b>	<b>101,188,250</b>	<b>129,888,500</b>	<b>90,680,750</b>	<b>848,406,500</b>	<b>647,875,000</b>	<b>1,537,012,580</b>	<b>1,144,017,580</b>		

## Appendix "M" to Report FCS22054 Page 1 of 1

**SOURCE OF CAPITAL FINANCING**  
**2023 to 2032 RATE PROGRAM CAPITAL BUDGET**  
**\$(000'S)**

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2023 to 2032
<b>WASTEWATER</b>											
<b>Capital Program</b>	<b>107,293</b>	<b>134,621</b>	<b>144,321</b>	<b>201,196</b>	<b>184,359</b>	<b>192,133</b>	<b>176,808</b>	<b>114,309</b>	<b>104,155</b>	<b>96,680</b>	<b>1,455,873</b>
<b><u>Source of Funding</u></b>											
Subsidy/Other Revenue	934	5,860	24,820	17,160	6,700	1,020	660	11,060	8,860	6,700	83,774
Development Charges	29,670	39,968	12,637	104,768	104,717	105,227	104,737	804	1,014	824	504,362
Reserves & Other Internal Sources	15,566	5,350	5,250	5,250	1,150	-	-	-	-	-	32,566
Contribution from Operating	54,231	3,442	35,614	69,663	46,792	65,886	71,411	102,445	94,281	89,156	632,924
External Debt	6,892	80,000	66,000	4,355	25,000	20,000	-	-	-	-	202,247
<b>Total</b>	<b>107,293</b>	<b>134,621</b>	<b>144,321</b>	<b>201,196</b>	<b>184,359</b>	<b>192,133</b>	<b>176,808</b>	<b>114,309</b>	<b>104,155</b>	<b>96,680</b>	<b>1,455,873</b>



City of Hamilton  
Wastewater System  
2023 Capital Budget Project List  
(\$)

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5162180584	RHBP - Nebo - Rymal to Twenty	250,000	-	-	250,000	-	-	-	-	-
<b>Coordinated - Network Extension Total</b>			<b>250,000</b>	<b>-</b>	<b>-</b>	<b>250,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Coordinated - Rehabilitation	5162371089	Bridge 089 - Creighton Rd, 30 m s/o Mill St	150,000	-	-	-	-	-	150,000	150,000	-
<b>Coordinated - Rehabilitation Total</b>			<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150,000</b>	<b>150,000</b>	<b>-</b>
Coordinated - Replacement	5162171025	Dewitt - Highway 8 to Barton	540,000	-	-	270,000	-	119,000	151,000	151,000	-
	5162271021	Westdale South Neighbourhood (Central)	50,000	-	-	-	-	-	50,000	50,000	-
	5162271214	Fairfield - Barton to Britannia	60,000	-	-	-	-	-	60,000	60,000	-
	5162371015	Sewer Lateral Replacement for Co-ordinated Projects	500,000	-	-	-	-	-	500,000	500,000	-
	5162371309	Wilson - Victoria to Sherman	400,000	-	-	-	-	400,000	-	-	-
	5162371310	Wilson - Wentworth to Sherman	575,000	-	-	-	-	360,000	215,000	215,000	-
	5162371311	CCBF - Morden - Locke To Pearl	90,000	-	-	-	-	-	90,000	90,000	-
	5162371315	Jones - Dundurn to West End	300,000	-	-	-	-	-	300,000	300,000	-
<b>Coordinated - Replacement Total</b>			<b>2,515,000</b>	<b>-</b>	<b>-</b>	<b>270,000</b>	<b>-</b>	<b>879,000</b>	<b>1,366,000</b>	<b>1,366,000</b>	<b>-</b>
Enhancement	5162241350	Pilot solar power installation at a Class B Hamilton Water facility	600,000	-	-	-	-	-	600,000	600,000	-
	5162268757	Lower Chedoke Combined EA Study	1,650,000	-	-	-	1,650,000	-	-	-	-
	5162268767	Chedoke Watershed Stormwater Retrofit EA Study	1,100,000	-	-	-	1,100,000	-	-	-	-
	5162360303	Rosemary/Wentworth Regulator Gate (HCG03)	100,000	-	-	-	-	-	100,000	100,000	-
	5162367117	HCG14 Wellington Street North Burlington Street East Regulator Upgrade	830,000	-	-	-	-	-	830,000	830,000	-
	5162367421	CSO Facilities Rehabilitation Project	4,000,000	-	-	-	-	2,500,000	1,500,000	1,500,000	-
<b>Enhancement Total</b>			<b>8,280,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,750,000</b>	<b>2,500,000</b>	<b>3,030,000</b>	<b>3,030,000</b>	<b>-</b>
Expansion / Extension	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	10,558,000	-	-	10,558,000	-	-	-	-	-
	5162396011	Intensification Infrastructure Upgrades Program - Wastewater	400,000	-	-	200,000	-	-	200,000	200,000	-
<b>Expansion / Extension Total</b>			<b>10,958,000</b>	<b>-</b>	<b>-</b>	<b>10,758,000</b>	<b>-</b>	<b>-</b>	<b>200,000</b>	<b>200,000</b>	<b>-</b>
Feasibility Plans / EA's/ Studies	5161796786	First Street (Waterdown Sanitary) PS Upgrade DC014	1,000,000	-	-	610,000	-	-	390,000	390,000	-
	5162095800	Flooding & Drainage Master Plan Capital Improvements	610,000	-	-	-	-	-	610,000	610,000	-
	5162168777	Chedoke Creek Water Quality Improvements (CASH FLOWED)	1,250,000	-	-	-	1,250,000	-	-	-	-
	5162255242	Combined Sewer Outfall Monitoring Study	200,000	-	-	-	128,530	-	71,470	71,470	-
	5162257800	Wastewater Facility Asset Management Implementation Plan	280,000	-	-	-	-	-	280,000	280,000	-
	5162349555	QA-QC Service Contract Program	150,000	-	-	-	-	-	150,000	150,000	-
	5162355010	Wastewater Systems Planning	710,000	-	-	-	-	-	710,000	710,000	-
	5162355022	Engineering Consultant Sewermain Projects	500,000	-	-	-	-	-	500,000	500,000	-
	5162355556	Mapping Update Program	20,000	-	-	-	-	-	20,000	20,000	-
	5162355880	Inflow & Infiltration Studies and Flow Monitoring Program	1,310,000	-	-	655,000	-	-	655,000	655,000	-
	5162357545	Wastewater Computer Model Update & Maintenance	480,000	-	-	-	-	-	480,000	480,000	-
	5162366711	Wastewater Treatment Studies Program	150,000	-	-	-	-	-	150,000	150,000	-
	5162367752	Wastewater Outstation Inspections - Asset Management Program	1,000,000	-	-	-	-	-	1,000,000	1,000,000	-
	5162562543	CSO Characterization Program	190,000	-	-	-	-	-	190,000	190,000	-
<b>Feasibility Plans / EA's/ Studies Total</b>			<b>7,850,000</b>	<b>-</b>	<b>-</b>	<b>1,265,000</b>	<b>1,378,530</b>	<b>-</b>	<b>5,206,470</b>	<b>5,206,470</b>	<b>-</b>
Licenses	5162362073	Field Data Systems Program	110,000	-	-	-	-	-	110,000	110,000	-
<b>Licenses Total</b>			<b>110,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>110,000</b>	<b>110,000</b>	<b>-</b>
Network Extension	5162360315	Parkside Drive Fire/EMS Facility Servicing	100,000	-	-	-	-	-	100,000	100,000	-
	5162360316	Parkside Drive Fire/EMS Facility Servicing Interim	100,000	-	-	-	-	-	100,000	100,000	-
	5162380381	Binbrook Sanitary Sewer - Fletcher to Brigham	603,000	-	-	603,000	-	-	-	-	-
<b>Network Extension Total</b>			<b>803,000</b>	<b>-</b>	<b>-</b>	<b>603,000</b>	<b>-</b>	<b>-</b>	<b>200,000</b>	<b>200,000</b>	<b>-</b>
New	5161667421	New Haulage Receiving Station	460,000	-	-	-	-	-	460,000	460,000	-
	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	16,000,000	-	-	16,000,000	-	-	-	-	-
	5161718420	Grindstone Creek Utility Bridge - DESIGN ONLY	100,000	-	-	-	-	-	100,000	100,000	-

**City of Hamilton  
 Wastewater System  
 2023 Capital Budget Project List  
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
	5162441226	New Water and Wastewater Operations Facilities (CASH FLOWED)	437,500	-	-	-	-	-	437,500	437,500	-
<b>New Total</b>			<b>16,997,500</b>	<b>-</b>	<b>-</b>	<b>16,000,000</b>	<b>-</b>	<b>-</b>	<b>997,500</b>	<b>997,500</b>	<b>-</b>
Rehabilitation / Renovation	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	11,730,000	-	-	-	-	-	11,730,000	11,730,000	-
	5160966910	Woodward WWTP - Biosolids Management Facility	2,770,000	-	-	523,530	-	-	2,246,470	2,246,470	-
	5161266213	Dundas WWTP Improvements (CASH FLOWED)	1,650,000	-	-	-	-	-	1,650,000	607,602	1,042,398
	5161267273	Dundas Wastewater Outstations Upgrades	440,000	-	-	-	-	-	440,000	440,000	-
	5161467756	Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	2,150,000	-	-	-	-	-	2,150,000	2,150,000	-
	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades	560,000	-	-	-	-	-	560,000	560,000	-
	5161966511	Woodward WWTP - Digester 3 & 5 (CASH FLOWED)	2,220,000	-	-	-	-	-	2,220,000	2,220,000	-
	5162067425	Hillside SPS (DC006) Upgrades	550,000	-	-	-	-	-	550,000	550,000	-
	5162167275	DC014 First Street (Waterdown) SPS New Swab Launch Chamber	330,000	-	-	-	-	-	330,000	330,000	-
	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	440,000	-	-	-	-	-	440,000	440,000	-
	5162266911	Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)	1,600,000	-	-	-	-	-	1,600,000	1,600,000	-
	5162267375	Beach Boulevard (HC051) Wastewater Pump Station Upgrades	2,300,000	-	-	-	-	2,000,000	300,000	300,000	-
	5162267376	Rockcliffe (DC015) Wastewater Pumping Station Upgrades	3,350,000	-	-	-	-	-	3,350,000	-	3,350,000
	5162311101	Road Cut Restoration Program	1,800,000	-	-	-	-	-	1,800,000	1,800,000	-
	5162360310	Regional Road 56 - Fall Fair Way to 500m North of Guyatt Rd - Sewer Main Rehab	2,500,000	-	-	-	-	-	2,500,000	-	2,500,000
	5162360390	Wastewater System Lining Program	4,050,000	-	-	-	-	4,050,000	-	-	-
	5162360522	Sewer Lateral Management Program (WWC)	1,000,000	-	-	-	-	-	1,000,000	1,000,000	-
	5162360574	Capital Programming Sewer Inspection & Assessment	700,000	-	-	-	-	438,000	262,000	262,000	-
	5162360575	Mainline Sewer Condition Assessment Program	1,140,000	-	-	-	-	-	1,140,000	1,140,000	-
	5162360576	Sewer Lateral Condition Assessment Program	250,000	-	-	-	-	250,000	-	-	-
	5162360942	Ancaster Sewage Works Sewer & Pipe Bridge Rehabilitation - Hwy 403 to Bluebell	300,000	-	-	-	-	300,000	-	-	-
	5162361444	Sewer Lateral Replace/Rehab Program	3,100,000	-	-	-	-	950,000	2,150,000	2,150,000	-
	5162361741	Resetting or Adjusting of Wastewater Utility Structures	250,000	-	-	-	-	-	250,000	250,000	-
	5162366223	Dundas WWTP Immediate Needs	1,400,000	-	-	-	-	-	1,400,000	1,400,000	-
	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	1,140,000	-	-	-	-	-	1,140,000	1,140,000	-
	5162366712	Wastewater Maintenance - Rebuild, Replacement and New Capital	300,000	-	-	-	-	-	300,000	300,000	-
	5162366713	Wastewater Capital Maintenance Program	3,000,000	-	-	-	-	-	3,000,000	3,000,000	-
	5162367425	Beach Boulevard (HC031) Wastewater Pumping Station Upgrades	830,000	-	-	-	-	-	830,000	830,000	-
<b>Rehabilitation / Renovation Total</b>			<b>51,850,000</b>	<b>-</b>	<b>-</b>	<b>523,530</b>	<b>-</b>	<b>7,988,000</b>	<b>43,338,470</b>	<b>36,446,072</b>	<b>6,892,398</b>
Replacement	5162360577	Mainline Sewer Condition Assessment for Compliance & Regulations	100,000	-	-	-	-	-	100,000	100,000	-
	5162360820	Open Cut Repairs for CIPP Program	500,000	-	-	-	-	-	500,000	500,000	-
	5162361350	Sewer Regulator Rehabilitation/Replacement	504,000	466,839	-	-	-	37,161	-	-	-
	5162361351	Targeted Private Disconnection Program	500,000	466,839	-	-	-	33,161	-	-	-
	5162361740	Unscheduled Manhole and Sewermain Replacement Program	650,000	-	-	-	-	-	650,000	650,000	-
	5162366111	Woodward WWTP - IT Infrastructure Upgrade	250,000	-	-	-	-	-	250,000	250,000	-
	5162366151	SCADA Maintenance Program	275,000	-	-	-	-	-	275,000	275,000	-
<b>Replacement Total</b>			<b>2,779,000</b>	<b>933,678</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>70,322</b>	<b>1,775,000</b>	<b>1,775,000</b>	<b>-</b>
Staffing Costs	5162301099	Engineering Services Staffing Costs - Wastewater	4,750,000	-	-	-	-	-	4,750,000	4,750,000	-
<b>Staffing Costs Total</b>			<b>4,750,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,750,000</b>	<b>4,750,000</b>	<b>-</b>
<b>Grand Total</b>			<b>107,292,500</b>	<b>933,678</b>	<b>-</b>	<b>29,669,530</b>	<b>4,128,530</b>	<b>11,437,322</b>	<b>61,123,440</b>	<b>54,231,042</b>	<b>6,892,398</b>

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2023 - 2032 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2023		2023		2024		2025		2026		Remaining		Project Total		Start	End	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Year	Year	
Coordinated - Network Extension	5162180584	RHBP - Nebo - Rymal to Twenty	750,000	-	250,000	-	-	-	-	-	-	-	-	-	-	1,000,000	-	2021	2023
Coordinated - Network Extension Total			750,000	-	250,000	-	-	-	-	-	-	-	-	-	-	1,000,000	-	-	-
Coordinated - Replacement	5162171025	Dewitt - Highway 8 to Barton	3,201,000	2,020,500	540,000	151,000	-	-	-	-	-	-	-	-	-	3,741,000	2,171,500	2021	2023
	5162271021	Westdale South Neighbourhood (Central)	30,000	30,000	50,000	50,000	-	-	-	-	-	-	-	-	-	80,000	80,000	2022	2023
	5162271214	Fairfield - Barton to Britannia	250,000	250,000	60,000	60,000	-	-	-	-	-	-	-	-	-	310,000	310,000	2022	2023
	5162371015	Sewer Lateral Replacement for Co-ordinated Projects	-	-	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,000,000	5,000,000	2023	2047	
	5162371309	Wilson - Victoria to Sherman	-	-	400,000	-	-	-	-	-	-	-	-	-	400,000	-	2023	2023	
	5162371310	Wilson - Wentworth to Sherman	-	-	575,000	215,000	-	-	-	-	-	-	-	-	575,000	215,000	2023	2023	
	5162371311	CCBF - Morden - Locke To Pearl	-	-	90,000	90,000	-	-	-	-	-	-	-	-	90,000	90,000	2023	2023	
	5162371315	Jones - Dundurn to West End	-	-	300,000	300,000	-	-	-	-	-	-	-	-	300,000	300,000	2023	2023	
	5162471202	Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	-	-	400,000	400,000	-	-	-	-	-	-	400,000	400,000	2024	2024	
	5162471304	Ferguson/Foster/Walnut/Patrick	-	-	-	-	110,000	110,000	-	-	-	-	-	-	110,000	110,000	2024	2024	
	5162471307	Duke - Hess to west end & Robinson - Queen to west end	-	-	-	-	30,000	30,000	270,000	270,000	-	-	-	-	300,000	300,000	2023	2025	
	5162471308	Scenic - Chateau Crt to Upper Paradise	-	-	-	-	1,400,000	1,400,000	-	-	-	-	-	-	1,400,000	1,400,000	2024	2024	
	5162471314	Pinelands / Teal / Garden / Community / Greensfield	-	-	-	-	130,000	130,000	-	-	-	-	-	-	130,000	130,000	2024	2024	
	5162571201	Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	-	-	-	400,000	400,000	-	-	-	-	400,000	400,000	2025	2025	
	5162571302	Arvin - Dosco to Jones	-	-	-	-	-	-	250,000	250,000	-	-	-	-	250,000	250,000	2025	2025	
	5162571305	Upper James - Mohawk to Fennell	-	-	-	-	-	-	330,000	330,000	-	-	-	-	330,000	330,000	2025	2025	
	5162571322	Barton - Sherman to Ottawa	-	-	-	-	-	-	850,000	850,000	-	-	-	-	850,000	850,000	2025	2025	
	5162772214	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	1,590,000	1,590,000	1,590,000	1,590,000	2027	2027	
	5162871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	750,000	750,000	750,000	750,000	2028	2028	
	5162871118	Charlton - Walnut to Sherman Access	-	-	-	-	-	-	-	-	-	-	120,000	120,000	120,000	120,000	2028	2028	
	5162871208	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	760,000	760,000	760,000	760,000	2028	2028	
	5162871311	Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	440,000	440,000	440,000	440,000	2028	2028	
	5162971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	20,000	20,000	20,000	20,000	2029	2029	
	5162971106	Wentworth - Barton to Burlington	-	-	-	-	-	-	-	-	-	-	250,000	250,000	250,000	250,000	2027	2027	
	5162971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	750,000	750,000	750,000	750,000	2029	2029	
	5162971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	75,000	75,000	75,000	75,000	2029	2029	
	5162971117	Green - Carla to Barton	-	-	-	-	-	-	-	-	-	-	100,000	100,000	100,000	100,000	2029	2029	
	5162971311	Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2029	2029	
	5163071308	Stipeley Neighbourhood (South) - Connaught / Balsam / Dunsmore	-	-	-	-	-	-	-	-	-	-	80,000	80,000	80,000	80,000	2030	2030	
Coordinated - Replacement Total			3,481,000	2,300,500	2,515,000	1,366,000	2,570,000	2,570,000	2,600,000	2,600,000	500,000	500,000	8,355,000	8,355,000	20,021,000	17,691,500	-	-	
Demolition / Disposal	5161767772	Decommissioning Aberdeen Sewage Pumping Station	10,000	10,000	-	-	-	-	140,000	140,000	1,440,000	1,440,000	-	-	1,590,000	1,590,000	2019	2026	
	5163066511	Woodward WWTP - Digester Cleanout & Maintenance Program	-	-	-	-	-	-	-	-	-	-	2,500,000	2,500,000	2,500,000	2,500,000	2030	2037	
Demolition / Disposal Total			10,000	10,000	-	-	-	-	140,000	140,000	1,440,000	1,440,000	2,500,000	2,500,000	4,090,000	4,090,000	-	-	
Enhancement	5162241350	Pilot solar power installation at a Class B Hamilton Water facility	-	-	600,000	600,000	-	-	-	-	-	-	-	-	600,000	600,000	2022	2025	
	5162268757	Lower Chedoke Combined EA Study	30,000	(250,000)	1,650,000	-	1,100,000	-	2,100,000	-	2,100,000	-	-	-	6,980,000	(250,000)	2022	2026	
	5162268767	Chedoke Watershed Stormwater Retrofit EA Study	30,000	(250,000)	1,100,000	-	3,150,000	-	3,150,000	-	3,150,000	-	1,150,000	-	11,730,000	(250,000)	2022	2027	
	5162362315	Eastport Sanitary Pumping Station Upgrades - Linear	-	-	-	-	910,000	910,000	-	-	-	-	5,460,000	5,460,000	6,370,000	6,370,000	2024	2028	
	5162367117	HCG14 Wellington Street North Burlington Street East Regulator Upgrade	-	-	830,000	830,000	-	-	-	-	-	-	-	-	830,000	830,000	2023	2023	
	5162367421	CSO Facilities Rehabilitation Project	-	-	4,000,000	1,500,000	-	-	-	-	-	-	-	-	4,000,000	1,500,000	2023	2023	
	5162360303	Rosemary/Wentworth Regulator Gate (HCG03)	-	-	100,000	100,000	200,000	200,000	-	-	-	-	-	-	300,000	300,000	2023	2024	
Enhancement Total			60,000	(500,000)	8,280,000	3,030,000	5,360,000	1,110,000	5,250,000	-	5,250,000	-	6,610,000	5,460,000	30,810,000	9,100,000	-	-	
Expansion / Extension	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	8,000,000	-	10,558,000	-	10,558,000	-	10,558,000	-	103,743,000	-	311,229,000	-	454,646,000	-	2019	2029	
	5162696475	Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	-	-	-	-	-	-	28,780,000	28,780,000	28,780,000	28,780,000	2027	2029	
	5162396011	Intensification Infrastructure Upgrades Program - Wastewater	-	-	400,000	200,000	-	-	400,000	200,000	-	-	1,200,000	600,000	2,000,000	1,000,000	2023	2047	
	5162580580	Millen Road Sanitary Sewer QEW crossing	-	-	-	-	-	-	1,125,000	-	-	-	-	-	1,125,000	-	2025	2025	
Expansion / Extension Total			8,000,000	-	10,958,000	200,000	10,558,000	-	12,083,000	200,000	103,743,000	-	341,209,000	29,380,000	486,551,000	29,780,000	-	-	
Feasibility Plans / EA's / Studies	5161555264	City-Wide Wastewater Master Plan	1,230,000	680,000	-	-	-	-	-	-	-	-	700,000	-	1,930,000	680,000	2015	2028	
	5161796786	First Street (Waterdown Sanitary) PS Upgrade DC014	5,590,000	1,852,000	1,000,000	390,000	-	-	-	-	-	-	-	-	6,590,000	2,242,000	2017	2023	
	5162055800	Sewer Outfall Monitoring Study	-	-	-	-	1,100,000	1,100,000	-	-	-	-	-	-	1,100,000	1,100,000	2020	2024	
	5162095800	Flooding & Drainage Master Plan Capital Improvements	830,000	830,000	610,000	610,000	520,000	520,000	210,000	210,000	-	-	-	-	2,170,000	2,170,000	2020	2025	
	5162168777	Chedoke Creek Water Quality Improvements (CASH FLOWED)	9,850,000	800,000	1,250,000	-	1,100,000	-	-	-	-	-	-	-	12,200,000	800,000	2021	2024	
	5162255242	Combined Sewer Outfall Monitoring Study	600,000	600,000	200,000	71,470	-	-	-	-	-	-	-	-	800,000	671,470	2022	2023	
	5162257800	Wastewater Facility Asset Management Implementation Plan	100,000	100,000	280,000	280,000	110,000	110,000	-	-	-	-	-	-	490,000	490,000	2022	2024	
	5162355010	Wastewater Systems Planning	-	-	710,000	710,000	730,000	730,000	750,000	750,000	770,000	770,000	5,250,000	5,250,000	8,210,000	8,210,000	2023	2046	
	5162355880	Inflow & Infiltration Studies and Flow Monitoring Program	-	-	1,310,000	655,000	1,060,000	530,000	460,000	230,000	480,000	240,000	3,300,000	1,650,000	6,610,000	3,305,000	2023	2046	
	5162357545	Wastewater Computer Model Update & Maintenance	-	-	480,000	480,000	500,000	500,000	330,000	330,000	220,000	220,000	1,530,000	1,530,000	3,060,000	3,060,000	2023	2046	
	5162366711	Wastewater Treatment Studies Program	-	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	-	-	600,000	600,000	2023	2026	
	5162367752	Wastewater Outstation Inspections - Asset Management Program	-	-	1,000,000	1,000,000	1,030,000	1,030,000	1,060,000	1,060,000	1,090,000	1,090,000	7,270,000	7,270,000	11,450,000	11,450,000	2023	2046	
	5162562543	CSO Characterization Program	170,000	170,000	190,000	190,000	200,000	200,000	700,000	700,000	220,000	220,000	1,530,000	1,530,000	3,010,000	3,010,000	2022	2032	

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2023 - 2032 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2023		2023		2024		2025		2026		Remaining		Project Total		Start	End
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Year	Year
	5163066151	2030 SCADA Master Plan	-	-	-	-	-	-	-	-	-	-	7,625,000	7,625,000	7,625,000	7,625,000	2029	2034
	5161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	20,000,000	(2,650,000)	-	-	26,380,000	-	-	-	-	-	-	-	46,380,000	(2,650,000)	2016	2024
	5162349555	QA-QC Service Contract Program	-	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,500,000	1,500,000	2023	2047
	5162355022	Engineering Consultant Sewermain Projects	-	-	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,000,000	5,000,000	2023	2047
	5162355556	Mapping Update Program	-	-	20,000	20,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	380,000	380,000	2023	2047
	5162355878	Forcemain Condition Assessment Program	-	-	-	-	270,000	270,000	270,000	270,000	270,000	270,000	1,620,000	1,620,000	2,430,000	2,430,000	2024	2047
<b>Feasibility Plans / EA's/ Studies Total</b>			<b>38,370,000</b>	<b>2,382,000</b>	<b>7,850,000</b>	<b>5,206,470</b>	<b>33,840,000</b>	<b>5,830,000</b>	<b>4,620,000</b>	<b>4,390,000</b>	<b>3,890,000</b>	<b>3,650,000</b>	<b>32,965,000</b>	<b>30,615,000</b>	<b>121,535,000</b>	<b>52,073,470</b>		
Licenses	5162362073	Field Data Systems Program	-	-	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,100,000	1,100,000	2023	2047
<b>Licenses Total</b>			<b>-</b>	<b>-</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>660,000</b>	<b>660,000</b>	<b>1,100,000</b>	<b>1,100,000</b>		
New	5161667421	New Haulage Receiving Station	1,290,000	1,290,000	460,000	460,000	6,670,000	6,670,000	6,870,000	6,870,000	-	-	-	-	15,290,000	15,290,000	2016	2025
	5162441226	New Water and Wastewater Operations Facilities (CASH FLOWED)	-	-	437,500	437,500	1,062,500	1,062,500	1,062,500	1,062,500	2,562,500	2,562,500	2,562,500	2,562,500	7,687,500	7,687,500	2023	2027
	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	99,680,000	(6,800,000)	16,000,000	-	-	-	-	-	-	-	-	-	115,680,000	(6,800,000)	2016	2023
	5161718420	Grindstone Creek Utility Bridge - DESIGN ONLY	50,000	50,000	100,000	100,000	-	-	-	-	-	-	-	-	150,000	150,000	2017	2023
<b>New Total</b>			<b>101,020,000</b>	<b>(5,460,000)</b>	<b>16,997,500</b>	<b>997,500</b>	<b>7,732,500</b>	<b>7,732,500</b>	<b>7,932,500</b>	<b>7,932,500</b>	<b>2,562,500</b>	<b>2,562,500</b>	<b>2,562,500</b>	<b>2,562,500</b>	<b>138,807,500</b>	<b>16,327,500</b>		
Rehabilitation / Renovation	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	424,632,253	424,632,253	11,730,000	11,730,000	-	-	-	-	-	-	-	-	436,362,253	436,362,253	2008	2023
	5160966910	Woodward WWTP - Biosolids Management Facility	40,450,000	36,809,470	2,770,000	2,246,470	2,770,000	2,246,470	2,770,000	2,246,470	2,770,000	2,246,470	16,620,000	13,478,820	68,150,000	59,274,170	2009	2046
	5161266213	Dundas WWTP Improvements (CASH FLOWED)	2,610,000	2,610,000	1,650,000	1,650,000	1,150,000	1,150,000	26,650,000	26,650,000	22,150,000	22,150,000	87,500,000	87,500,000	141,710,000	141,710,000	2011	2032
	5161267273	Dundas Wastewater Outstations Upgrades	5,900,000	5,900,000	440,000	440,000	1,650,000	1,650,000	-	-	-	-	-	-	7,990,000	7,990,000	2011	2024
	5161467756	Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	2,470,000	2,470,000	2,150,000	2,150,000	-	-	-	-	-	-	-	-	4,620,000	4,620,000	2014	2023
	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades	910,000	910,000	560,000	560,000	-	-	4,500,000	4,500,000	4,500,000	4,500,000	44,000,000	44,000,000	54,470,000	54,470,000	2016	2029
	5161966511	Woodward WWTP - Digester 3 & 5 (CASH FLOWED)	13,360,000	13,360,000	2,220,000	2,220,000	-	-	-	-	-	-	-	-	15,580,000	15,580,000	2019	2023
	5162066813	Dundas WWTP - Health & Safety Immediate Needs	3,950,000	3,950,000	-	-	2,500,000	2,500,000	-	-	-	-	-	-	6,450,000	6,450,000	2020	2024
	5162067065	Eastport Drive SPS (HC017) Upgrades	2,000,000	2,000,000	-	-	2,000,000	2,000,000	-	-	-	-	-	-	4,000,000	4,000,000	2020	2024
	5162067425	Hillside SPS (DC006) Upgrades	1,160,000	1,160,000	550,000	550,000	-	-	-	-	-	-	-	-	1,710,000	1,710,000	2020	2023
	5162167275	DC014 First Street (Waterdown) SPS New Swab Launch Chamber	1,540,000	1,540,000	330,000	330,000	-	-	-	-	-	-	-	-	1,870,000	1,870,000	2021	2023
	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	1,100,000	1,100,000	440,000	440,000	250,000	250,000	2,750,000	2,750,000	2,750,000	2,750,000	-	-	7,290,000	7,290,000	2021	2026
	5162266911	Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)	3,450,000	3,450,000	1,600,000	1,600,000	1,600,000	1,600,000	20,750,000	20,750,000	20,750,000	20,750,000	-	-	48,150,000	48,150,000	2022	2026
	5162267375	Beach Boulevard (HC051) Wastewater Pump Station Upgrades	440,000	440,000	2,300,000	300,000	-	-	-	-	-	-	-	-	2,740,000	740,000	2022	2023
	5162267376	Rockcliffe (DC015) Wastewater Pumping Station Upgrades	90,000	90,000	3,350,000	3,350,000	-	-	-	-	-	-	-	-	3,440,000	3,440,000	2022	2023
	5162267585	Diesel Fuel Storage Compliance Upgrades	700,000	700,000	-	-	1,400,000	1,400,000	-	-	-	-	-	-	2,100,000	2,100,000	2022	2024
	5162360302	Emergency Repairs - Cross Connections Program	-	-	-	-	400,000	400,000	400,000	400,000	350,000	350,000	-	-	1,150,000	1,150,000	2024	2026
	5162360522	Sewer Lateral Management Program (WWC)	-	-	1,000,000	1,000,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	21,000,000	21,000,000	32,500,000	32,500,000	2023	2047
	5162361741	Resetting or Adjusting of Wastewater Utility Structures	-	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,500,000	2,500,000	2023	2047
	5162366223	Dundas WWTP Immediate Needs	-	-	1,400,000	1,400,000	-	-	3,950,000	3,950,000	-	-	-	-	5,350,000	5,350,000	2023	2025
	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	1,100,000	1,100,000	1,140,000	1,140,000	14,650,000	14,650,000	14,650,000	14,650,000	-	-	-	-	31,540,000	31,540,000	2022	2026
	5162366712	Wastewater Maintenance - Rebuild, Replacement and New Capital	-	-	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	1,800,000	3,000,000	3,000,000	2023	2046
	5162366713	Wastewater Capital Maintenance Program	-	-	3,000,000	3,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	21,000,000	21,000,000	2023	2046
	5162367425	Beach Boulevard (HC031) Wastewater Pumping Station Upgrades	-	-	830,000	830,000	3,550,000	3,550,000	-	-	-	-	-	-	4,380,000	4,380,000	2023	2024
	5162369075	City Environmental Lab Improvements Program	-	-	-	-	180,000	180,000	295,000	295,000	895,000	895,000	1,312,000	1,312,000	2,682,000	2,682,000	2024	2047
	5162667751	Wastewater Outstation Upgrades - Asset Management Program	-	-	-	-	-	-	-	-	5,200,000	5,200,000	31,200,000	31,200,000	36,400,000	36,400,000	2024	2047
	5162311101	Road Cut Restoration Program	-	-	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	10,800,000	10,800,000	18,000,000	18,000,000	2023	2047
	5162360310	Regional Road 56 - Fall Fair Way to 500m North of Guyatt Rd - Sewer Main Rehab	-	-	2,500,000	2,500,000	-	-	-	-	-	-	-	-	2,500,000	2,500,000	2023	2023
	5162360390	Wastewater System Lining Program	-	-	4,050,000	-	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	24,300,000	24,300,000	40,500,000	36,450,000	2023	2047
	5162360533	Trenchless Manhole Rehabilitation	-	-	-	-	70,000	70,000	70,000	70,000	70,000	70,000	420,000	420,000	630,000	630,000	2024	2047
	5162360574	Capital Programming Sewer Inspection & Assessment	-	-	700,000	262,000	700,000	700,000	700,000	700,000	700,000	700,000	4,200,000	4,200,000	7,000,000	6,562,000	2023	2046
	5162360575	Mainline Sewer Condition Assessment Program	-	-	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	6,840,000	6,840,000	11,400,000	11,400,000	2023	2047
	5162360576	Sewer Lateral Condition Assessment Program	-	-	250,000	-	250,000	250,000	250,000	250,000	250,000	250,000	2,660,000	2,660,000	3,660,000	3,410,000	2023	2047
	5162360942	Ancaster Sewage Works Sewer & Pipe Bridge Rehabilitation - Hwy 403 to Bluebell	-	-	300,000	-	4,000,000	4,000,000	-	-	-	-	-	-	4,300,000	4,000,000	2023	2024
	5162361444	Sewer Lateral Replace/Rehab Program	-	-	3,100,000	2,150,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	20,600,000	20,600,000	33,000,000	32,050,000	2023	2047
	5162460372	Large Sewer Lining - Blanshard St: Locke St to Poulette St	-	-	-	-	2,600,000	2,600,000	-	-	-	-	-	-	2,600,000	2,600,000	2023	2024
	5162461420	West 31st 400mm Forcemain Replacement & Rehabilitation	-	-	-	-	3,500,000	3,500,000	-	-	-	-	-	-	3,500,000	3,500,000	2024	2024
	5162560572	Large Sewer Lining: Upper James - Inverness to James St	-	-	-	-	-	-	3,000,000	3,000,000	-	-	-	-	3,000,000	3,000,000	2025	2025
	5162560592	Strathearne - Barton to Brampton	-	-	-	-	-											

CITY OF HAMILTON  
 WASTEWATER SYSTEM  
 2023 - 2032 CAPITAL BUDGET LIST (\$)

Project Type	Project ID	Title	Pre 2023		2023		2024		2025		2026		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5162366111	Woodward WWTP - IT Infrastructure Upgrade	-	-	250,000	250,000	-	-	-	-	-	-	-	-	250,000	250,000	2023	2023
	5162366151	SCADA Maintenance Program	-	-	275,000	275,000	275,000	275,000	900,000	900,000	275,000	275,000	2,150,000	2,150,000	3,875,000	3,875,000	2023	2046
	5162367065	Replacement of the Eastport Sanitary Pumping Station	-	-	-	-	1,240,000	1,240,000	330,000	330,000	660,000	660,000	14,130,000	14,130,000	16,360,000	16,360,000	2023	2030
	5161968920	Fennell/Greenhill Drop Shaft	-	-	-	-	-	-	-	-	-	-	14,850,000	14,850,000	14,850,000	14,850,000	2019	2030
	5162360577	Mainline Sewer Condition Assessment for Compliance & Regulations	-	-	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	600,000	600,000	1,000,000	1,000,000	2023	2047
	5162360711	PW Capital Water Consumption Program	-	-	-	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,250,000	2,250,000	2024	2047
	5162360820	Open Cut Repairs for CIPP Program	-	-	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,000,000	5,000,000	2023	2047
	5162361350	Sewer Regulator Rehabilitation/Replacement	-	-	504,000	-	-	-	-	-	-	-	-	-	504,000	-	2023	2023
	5162371074	Contingency for Unscheduled Works Program	-	-	-	-	100,000	100,000	100,000	100,000	100,000	100,000	600,000	600,000	900,000	900,000	2024	2047
	5162418420	Grindstone Creek Utility Bridge	-	-	-	-	3,500,000	3,500,000	-	-	-	-	-	-	3,500,000	3,500,000	2024	2028
	5162496850	Locke - King To York and Margaret - Main To King And King St - Margaret To Locke (W-19)	-	-	-	-	225,000	225,000	-	-	-	-	-	-	225,000	225,000	2024	2024
	5162561305	John - Cannon to Barton	-	-	-	-	-	-	250,000	250,000	-	-	-	-	250,000	250,000	2025	2025
Replacement Total			-	-	2,779,000	1,775,000	6,690,000	6,690,000	2,930,000	2,930,000	2,385,000	2,385,000	39,830,000	39,830,000	54,614,000	53,610,000		
Staffing Costs	5162301099	Engineering Services Staffing Costs - Wastewater	-	-	4,750,000	4,750,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	45,250,000	45,250,000	2023	2047
Staffing Costs Total			-	-	4,750,000	4,750,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	45,250,000	45,250,000		
Network Extension	5162380381	Binbrook Sanitary Sewer - Fletcher to Brigham	-	-	603,000	-	-	-	-	-	-	-	-	-	603,000	-	2023	2023
	5162480480	Glover Road Sanitary Sewer - Hwy 8 to 900m north, past Watercourse 7	-	-	-	-	724,000	72,400	-	-	-	-	-	-	724,000	72,400	2024	2024
	5162480481	Barton Sanitary Sewer - 200m east of McNeilly to Lewis	-	-	-	-	869,000	-	-	-	-	-	-	-	869,000	-	2024	2024
	5162480482	Barton Sanitary Sewer - Lewis to 350m east of Lewis	-	-	-	-	507,000	50,700	-	-	-	-	-	-	507,000	50,700	2024	2024
	5162680680	Jones Sanitary Sewer - 350m south of Barton to 200m south	-	-	-	-	-	-	-	-	290,000	29,000	-	-	290,000	29,000	2026	2026
	5162360315	Parkside Drive Fire/EMS Facility Servicing	-	-	100,000	100,000	800,000	800,000	-	-	-	-	-	-	900,000	900,000	2023	2024
	5162360316	Parkside Drive Fire/EMS Facility Servicing Interim	-	-	100,000	100,000	1,000,000	1,000,000	-	-	-	-	-	-	1,100,000	1,100,000	2023	2024
Network Extension Total			-	-	803,000	200,000	3,900,000	1,923,100	-	-	290,000	29,000	-	-	4,993,000	2,152,100		
Coordinated - Rehabilitation	5162371089	Bridge 089 - Creighton Rd, 30 m s/o Mill St	-	-	150,000	150,000	-	-	-	-	-	-	-	-	150,000	150,000	2023	2023
Coordinated - Rehabilitation Total			-	-	150,000	150,000	-	-	-	-	-	-	-	-	150,000	150,000		
Grand Total			657,553,253	500,954,223	107,292,500	61,123,440	134,620,500	89,302,070	144,320,500	126,433,970	201,195,500	91,177,970	748,443,500	429,973,320	1,993,425,753	1,298,964,993		

## Appendix "P" to Report FCS22054 Page 1 of 1

**SOURCE OF CAPITAL FINANCING**  
**2023 to 2032 RATE PROGRAM CAPITAL BUDGET**  
**\$(000'S)**

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2023 to 2032
<b>STORM SEWERS</b>											
<b>Capital Program</b>	<b>31,290</b>	<b>75,182</b>	<b>38,720</b>	<b>26,470</b>	<b>52,280</b>	<b>59,010</b>	<b>49,690</b>	<b>33,760</b>	<b>38,420</b>	<b>35,770</b>	<b>440,592</b>
<b><u>Source of Funding</u></b>											
Subsidy/Other Revenue	-	-	75	75	75	75	75	75	75	75	600
Development Charges	12,738	45,532	4,000	5,056	4,000	4,000	4,000	4,000	5,892	4,000	93,218
Reserves & Other Internal Sources	3,730	-	-	-	-	-	-	-	-	-	3,730
Contribution from Operating	14,822	19,464	20,796	17,339	40,197	49,061	45,615	29,685	32,453	31,695	301,127
External Debt	-	10,186	13,849	4,000	8,008	5,874	-	-	-	-	41,917
<b>Total</b>	<b>31,290</b>	<b>75,182</b>	<b>38,720</b>	<b>26,470</b>	<b>52,280</b>	<b>59,010</b>	<b>49,690</b>	<b>33,760</b>	<b>38,420</b>	<b>35,770</b>	<b>440,592</b>

**City of Hamilton**  
**Storm Water Management**  
**2023 Capital Budget Project List**  
**(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5181880887	Multi-Area Employment Lands - Storm Sewer for Street A Extension to Pritchard (new road)	700,000	-	-	-	-	-	700,000	700,000	-
	5182180584	RHBP - Nebo - Rymal to Twenty	1,000,000	-	-	850,000	-	-	150,000	150,000	-
<b>Coordinated - Network Extension Total</b>			<b>1,700,000</b>	<b>-</b>	<b>-</b>	<b>850,000</b>	<b>-</b>	<b>-</b>	<b>850,000</b>	<b>850,000</b>	<b>-</b>
Coordinated - Replacement	5182371309	Wilson - Wentworth to Sherman	530,000	-	-	-	-	530,000	-	-	-
	5182372315	Jones - Dundurn to West End	275,000	-	-	-	-	-	275,000	275,000	-
<b>Coordinated - Replacement Total</b>			<b>805,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>530,000</b>	<b>275,000</b>	<b>275,000</b>	<b>-</b>
Enhancement	5181562590	SWMP Retrofits	660,000	-	-	-	-	-	660,000	660,000	-
	5181872295	SERG - Winona Area Drainage Improvements	66,000	-	-	-	-	-	66,000	66,000	-
	5181967500	DMAF- CSO Backflow Preventors	2,250,000	-	-	-	-	-	2,250,000	2,250,000	-
<b>Enhancement Total</b>			<b>2,976,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,976,000</b>	<b>2,976,000</b>	<b>-</b>
Feasibility Plans / EA's/ Studies	5182095800	Flooding & Drainage Master Plan Capital Improvements	610,000	-	-	-	-	-	610,000	610,000	-
	5182317550	Small Culvert Rehab/Repair - Engineering Services	550,000	-	-	-	-	550,000	-	-	-
	5182355210	Storm Water Outfall Investigations	300,000	-	-	-	-	299,000	1,000	1,000	-
	5182355340	Stormwater & Drainage Studies	500,000	-	-	-	-	-	500,000	500,000	-
	5182355347	Watercourse Erosion Sites Rehabilitation and Mitigation	310,000	-	-	-	-	-	310,000	310,000	-
	5182355421	Stormwater System Planning Program	420,000	-	-	-	-	-	420,000	420,000	-
	5182355556	Mapping Update Program	20,000	-	-	-	-	-	20,000	20,000	-
	5182368678	City of Hamilton Watershed Action Plan	220,000	-	-	-	-	-	220,000	220,000	-
	5182374680	Storm Sewer Network Planning - Transportation Program	720,000	-	-	-	-	-	720,000	720,000	-
	5182374840	Stormwater Analysis for Bridge, Culvert and Ditch Replacement Projects	305,000	-	-	-	-	-	305,000	305,000	-
<b>Feasibility Plans / EA's/ Studies Total</b>			<b>3,955,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>849,000</b>	<b>3,106,000</b>	<b>3,106,000</b>	<b>-</b>
Licenses	5182362073	Field Data Systems Program	110,000	-	-	-	-	-	110,000	110,000	-
<b>Licenses Total</b>			<b>110,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>110,000</b>	<b>110,000</b>	<b>-</b>
Network Extension	5182360315	Parkside Drive Fire/EMS Facility Servicing	100,000	-	-	-	-	-	100,000	100,000	-
<b>Network Extension Total</b>			<b>100,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100,000</b>	<b>100,000</b>	<b>-</b>
New	5182067875	Beach Strip Stormwater Pumping Stations (CASH FLOWED)	1,260,000	-	-	-	-	-	1,260,000	1,260,000	-
	5182323875	Beach Strip Stormwater Collection System Improvements	185,000	-	-	-	-	-	185,000	185,000	-
	5182380390	SWMP - A14 - Springbrook Corners	1,290,000	-	-	1,290,000	-	-	-	-	-
	5182380391	SWMP - SL3 - Block 2 (844 Barton Street)	3,320,000	-	-	3,320,000	-	-	-	-	-
	5182380392	SWMP - BMH20 - Binbrook Settlement Area	3,933,000	-	-	3,933,000	-	-	-	-	-
	5182380393	SWMP - HAM30 - St. Elizabeth's Village Expansion Retrofit	1,780,000	-	-	1,780,000	-	-	-	-	-
	5182380864	SWMP - W6 Waterdown Bay (Saleem Property )	1,565,000	-	-	1,565,000	-	-	-	-	-
<b>New Total</b>			<b>13,333,000</b>	<b>-</b>	<b>-</b>	<b>11,888,000</b>	<b>-</b>	<b>-</b>	<b>1,445,000</b>	<b>1,445,000</b>	<b>-</b>
Rehabilitation / Renovation	5181372295	SERG - Mount Albion Stormwater Management Facility Rehabilitation	110,000	-	-	-	-	-	110,000	110,000	-
	5181767723	Grafton and Centennial Stormwater Pumping Stations - Standby Power	550,000	-	-	-	-	-	550,000	550,000	-
	5182061046	Osler Dr Outfall @ Grant Blvd	232,000	-	-	-	-	232,000	-	-	-
	5182317152	Right of Way Drainage Program	1,500,000	-	-	-	-	1,500,000	-	-	-
	5182317549	Concrete Box Culvert Rehab/Repair - T.O.M.	250,000	-	-	-	-	250,000	-	-	-
	5182318086	Culvert rehabilitation (Bridge 086) - Cross St, 25 metres south of Alma St	100,000	-	-	-	-	100,000	-	-	-
	5182360622	SWM Facility Maintenance Program	2,500,000	-	-	-	-	-	2,500,000	2,500,000	-
	5182361341	Sullivan's Lane (Dundas) Drainage Improvements	400,000	-	-	-	-	-	400,000	400,000	-
<b>Rehabilitation / Renovation Total</b>			<b>5,642,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,082,000</b>	<b>3,560,000</b>	<b>3,560,000</b>	<b>-</b>
Replacement	5182260220	Culvert FLA-3008 - Old Brock Rd 100m w/o Brock	169,000	-	-	-	-	169,000	-	-	-
	5182317458	Catch Basin Replacement/Rehabilitation Program	500,000	-	-	-	-	-	500,000	500,000	-
	5182318320	Woodhill Road Culvert	100,000	-	-	-	-	-	100,000	100,000	-
	5182361740	Unscheduled Manhole and Sewermain Replacement Program	200,000	-	-	-	-	-	200,000	200,000	-

**City of Hamilton**  
**Storm Water Management**  
**2023 Capital Budget Project List**  
**(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
	5182372074	Contingency for Unscheduled Works Program	100,000	-	-	-	-	100,000	-	-	-
Replacement Total			1,069,000	-	-	-	-	269,000	800,000	800,000	-
Staffing Costs	5182301099	Engineering Services Staffing Costs - Storm	1,600,000	-	-	-	-	-	1,600,000	1,600,000	-
Staffing Costs Total			1,600,000	-	-	-	-	-	1,600,000	1,600,000	-
Grand Total			31,290,000	-	-	12,738,000	-	3,730,000	14,822,000	14,822,000	-



**CITY OF HAMILTON**  
**STORM WATER MANAGEMENT**  
**2023 - 2032 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2023		2023		2024		2025		2026		Remaining		Project Total		Start Year	End Year	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net			
Coordinated - Network Extension	5181880887	Multi-Area Employment Lands - Storm Sewer for Street A Extension to Pritchard (new road)	280,000	280,000	700,000	700,000	-	-	-	-	-	-	-	-	980,000	980,000	2018	2023	
	5183180086	Parkside Dr Urbanization - Phase 2 - Storm Sewer	-	-	-	-	-	-	-	-	-	-	-	1,100,000	440,000	1,100,000	440,000	2022	2031
	5182180584	RHBP - Nebo - Rymal to Twenty	2,000,000	300,000	1,000,000	150,000	-	-	-	-	-	-	-	-	3,000,000	450,000	2021	2023	
	5182472021	Highland Rd W - First Rd W to Upper Centennial	-	-	-	-	2,900,000	2,900,000	-	-	-	-	-	-	2,900,000	2,900,000	2023	2024	
	5182871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	2,500,000	2,500,000	2,500,000	2,500,000	2028	2028	
	5182971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	1,250,000	1,250,000	1,250,000	1,250,000	2029	2029	
	5182971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	650,000	650,000	650,000	650,000	2029	2029	
<b>Coordinated - Network Extension Total</b>			<b>2,280,000</b>	<b>580,000</b>	<b>1,700,000</b>	<b>850,000</b>	<b>2,900,000</b>	<b>2,900,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,500,000</b>	<b>4,840,000</b>	<b>12,380,000</b>	<b>9,170,000</b>			
Coordinated - Replacement	5182371309	Wilson - Wentworth to Sherman	-	-	530,000	-	-	-	-	-	-	-	-	-	530,000	-	2023	2023	
	5182372315	Jones - Dundurn to West End	-	-	275,000	275,000	-	-	-	-	-	-	-	-	275,000	275,000	2023	2029	
	5182472305	Hatt & Bond - King to Market	-	-	-	-	2,100,000	2,100,000	-	-	-	-	-	-	2,100,000	2,100,000	2023	2024	
	5182772021	Industrial - Ottawa to Gage / Gage / Depew	-	-	-	-	-	-	-	-	-	-	400,000	400,000	400,000	400,000	2027	2027	
	5182872208	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	700,000	700,000	700,000	700,000	2028	2028	
	5182971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	1,200,000	1,200,000	1,200,000	1,200,000	2029	2029	
	5183072298	Stipeley Neighbourhood (South) - Connaught / Balsam / Dunsmore	-	-	-	-	-	-	-	-	-	-	850,000	850,000	850,000	850,000	2030	2030	
<b>Coordinated - Replacement Total</b>			<b>-</b>	<b>-</b>	<b>805,000</b>	<b>275,000</b>	<b>2,100,000</b>	<b>2,100,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,150,000</b>	<b>3,150,000</b>	<b>6,055,000</b>	<b>5,525,000</b>			
Coordinated - Upgrade	5183072293	Hughson - Wilson to Barton	-	-	-	-	-	-	-	-	-	-	280,000	280,000	280,000	280,000	2030	2030	
<b>Coordinated - Upgrade Total</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>280,000</b>	<b>280,000</b>	<b>280,000</b>	<b>280,000</b>			
Enhancement	5181562590	SWMP Retrofits	460,000	460,000	660,000	660,000	-	-	-	-	-	-	-	-	1,120,000	1,120,000	2015	2023	
	5181823155	South St E and East St S in Dundas Drainage Improvement - SERG	40,000	40,000	-	-	-	-	1,280,000	1,280,000	-	-	-	-	1,320,000	1,320,000	2018	2025	
	5181872295	SERG - Winona Area Drainage Improvements	1,150,000	1,150,000	66,000	66,000	-	-	-	-	220,000	220,000	1,400,000	1,400,000	2,836,000	2,836,000	2018	2028	
	5181967500	DMAF- CSO Backflow Preventors	1,090,000	1,090,000	2,250,000	2,250,000	-	-	-	-	-	-	-	-	3,340,000	3,340,000	2019	2023	
	5182696475	Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	-	-	-	-	-	-	86,190,000	86,190,000	86,190,000	86,190,000	2021	2029	
<b>Enhancement Total</b>			<b>2,740,000</b>	<b>2,740,000</b>	<b>2,976,000</b>	<b>2,976,000</b>	<b>-</b>	<b>-</b>	<b>1,280,000</b>	<b>1,280,000</b>	<b>220,000</b>	<b>220,000</b>	<b>87,590,000</b>	<b>87,590,000</b>	<b>94,806,000</b>	<b>94,806,000</b>			
Feasibility Plans / EA's/ Studies	5182095800	Flooding & Drainage Master Plan Capital Improvements	830,000	830,000	610,000	610,000	510,000	510,000	210,000	210,000	-	-	-	-	2,160,000	2,160,000	2020	2025	
	5182355075	Watershed Project Coordination and Stewardship Action Plans	-	-	-	-	170,000	170,000	170,000	170,000	170,000	170,000	1,020,000	1,020,000	1,530,000	1,530,000	2024	2046	
	5182355340	Stormwater & Drainage Studies	-	-	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	-	-	2,000,000	2,000,000	2023	2026	
	5182355347	Watercourse Erosion Sites Rehabilitation and Mitigation	-	-	310,000	310,000	320,000	320,000	3,510,000	3,510,000	340,000	340,000	12,560,000	12,560,000	17,040,000	17,040,000	2023	2035	
	5182355421	Stormwater System Planning Program	-	-	420,000	420,000	440,000	440,000	460,000	460,000	480,000	480,000	3,300,000	3,300,000	5,100,000	5,100,000	2023	2046	
	5182357545	Stormwater Computer Model and Flow Monitoring	-	-	-	-	1,220,000	1,220,000	1,260,000	1,260,000	100,000	100,000	2,310,000	2,310,000	4,890,000	4,890,000	2023	2046	
	5182367751	Stormwater Infrastructure Criticality Assessment	-	-	-	-	320,000	320,000	330,000	330,000	340,000	340,000	2,310,000	2,310,000	3,300,000	3,300,000	2024	2046	
	5182368678	City of Hamilton Watershed Action Plan	-	-	220,000	220,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	7,200,000	7,200,000	11,020,000	11,020,000	2023	2032	
	5182374680	Storm Sewer Network Planning - Transportation Program	-	-	720,000	720,000	750,000	750,000	780,000	780,000	810,000	810,000	5,490,000	5,490,000	8,550,000	8,550,000	2023	2046	
	5182374840	Stormwater Analysis for Bridge, Culvert and Ditch Replacement Projects	-	-	305,000	305,000	570,000	570,000	590,000	590,000	610,000	610,000	4,080,000	4,080,000	6,155,000	6,155,000	2023	2046	
	5182374951	Shoreline Protection Program	-	-	-	-	750,000	750,000	150,000	150,000	400,000	400,000	2,600,000	2,600,000	3,900,000	3,900,000	2024	2047	
	5182455422	Stormwater Master Plan	-	-	-	-	-	-	-	-	1,320,000	264,000	1,540,000	308,000	2,860,000	572,000	2024	2031	
	5182317550	Small Culvert Rehab/Repair - Engineering Services	-	-	550,000	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,800,000	2,250,000	2023	2047	
5182349555	QA-QC Service Contract Program	-	-	-	-	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,350,000	1,350,000	2024	2047		
5182355210	Storm Water Outfall Investigations	-	-	300,000	1,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	1,800,000	3,000,000	2,701,000	2023	2047		
5182355556	Mapping Update Program	-	-	20,000	20,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	380,000	380,000	2023	2047		
<b>Feasibility Plans / EA's/ Studies Total</b>			<b>830,000</b>	<b>830,000</b>	<b>3,955,000</b>	<b>3,106,000</b>	<b>7,490,000</b>	<b>7,490,000</b>	<b>9,900,000</b>	<b>9,900,000</b>	<b>7,010,000</b>	<b>5,954,000</b>	<b>46,850,000</b>	<b>45,618,000</b>	<b>76,035,000</b>	<b>72,898,000</b>			
Licenses	5182362073	Field Data Systems Program	-	-	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,100,000	1,100,000	2023	2047	
<b>Licenses Total</b>			<b>-</b>	<b>-</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>660,000</b>	<b>660,000</b>	<b>1,100,000</b>	<b>1,100,000</b>			
New	5182067875	Beach Strip Stormwater Pumping Stations (CASH FLOWED)	30,000	30,000	1,260,000	1,260,000	4,230,000	4,230,000	8,270,000	8,270,000	4,820,000	4,820,000	-	-	18,610,000	18,610,000	2020	2026	
	5182323875	Beach Strip Stormwater Collection System Improvements	-	-	185,000	185,000	620,000	620,000	-	-	2,950,000	2,950,000	-	-	3,755,000	3,755,000	2022	2032	
	5182460214	SERG - Parkside & Kipling Stormwater Infrastructure - CASH FLOW	-	-	-	-	200,000	200,000	6,900,000	6,900,000	-	-	8,000,000	8,000,000	15,100,000	15,100,000	2023	2038	
	5182380090	Storm Water Management Program	-	-	-	-	4,000,000	-	4,000,000	-	4,000,000	-	24,000,000	-	36,000,000	-	2024	2047	
	5182380390	SWMP - A14 - Springbrook Corners	-	-	1,290,000	-	-	-	-	-	-	-	-	-	1,290,000	-	2023	2023	
	5182380391	SWMP - SL3 - Block 2 (844 Barton Street)	-	-	3,320,000	-	-	-	-	-	-	-	-	-	3,320,000	-	2023	2023	
	5182380392	SWMP - BMH20 - Binbrook Settlement Area	-	-	3,933,000	-	-	-	-	-	-	-	-	-	3,933,000	-	2023	2023	
	5182380393	SWMP - HAM30 - St. Elizabeth's Village Expansion Retrofit	-	-	1,780,000	-	-	-	-	-	-	-	-	-	1,780,000	-	2023	2023	
	5182380864	SWMP - W6 Waterdown Bay (Saleem Property)	-	-	1,565,000	-	-	-	-	-	-	-	-	-	1,565,000	-	2023	2023	

**CITY OF HAMILTON**  
**STORM WATER MANAGEMENT**  
**2023 - 2032 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2023		2023		2024		2025		2026		Remaining		Project Total		Start	End
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Year	Year
	5182480490	SWMP - H28 - 305 Stone Church Road West	-	-	-	-	5,175,000	-	-	-	-	-	-	-	5,175,000	-	2024	2024
	5182480491	SWMP - SCM22 - Nash Neighbourhood - Davis Creek Subwatershed Study	-	-	-	-	2,970,000	-	-	-	-	-	-	-	2,970,000	-	2024	2024
	5182480492	SWMP - BMH21 - Binbrook Settlement Area	-	-	-	-	4,036,000	-	-	-	-	-	-	-	4,036,000	-	2024	2024
	5182480493	SWMP - BMH24 - Caterini Subdivision	-	-	-	-	2,089,000	-	-	-	-	-	-	-	2,089,000	-	2024	2024
	5182480494	SWMP - SCL29 - Block 1 - Fruitland/Winona	-	-	-	-	7,458,000	-	-	-	-	-	-	-	7,458,000	-	2024	2024
	5182480495	SWMP - SCL30 - Block 1 - Fruitland/Winona Subwatershed Study (Phase 3)	-	-	-	-	4,724,000	-	-	-	-	-	-	-	4,724,000	-	2024	2024
	5182480496	SWMP - SCL12 - Block 3 - Fruitland/Winona Subwatershed Study (Phase 3)	-	-	-	-	10,334,000	-	-	-	-	-	-	-	10,334,000	-	2024	2024
	5182480497	SWMP - SCM21 - Nash Neighbourhood - Davis Creek	-	-	-	-	4,746,000	-	-	-	-	-	-	-	4,746,000	-	2024	2024
<b>New Total</b>			<b>30,000</b>	<b>30,000</b>	<b>13,333,000</b>	<b>1,445,000</b>	<b>50,582,000</b>	<b>5,050,000</b>	<b>19,170,000</b>	<b>15,170,000</b>	<b>11,770,000</b>	<b>7,770,000</b>	<b>32,000,000</b>	<b>8,000,000</b>	<b>126,885,000</b>	<b>37,465,000</b>		
Rehabilitation / Renovation	5181372295	SERG - Mount Albion Stormwater Management Facility Rehabilitation	670,000	670,000	110,000	110,000	-	-	550,000	550,000	-	-	-	-	1,330,000	1,330,000	2013	2025
	5181767723	Grafton and Centennial Stormwater Pumping Stations - Standby Power	2,500,000	2,500,000	550,000	550,000	-	-	-	-	50,000	50,000	-	-	3,100,000	3,100,000	2017	2026
	5182360622	SWM Facility Maintenance Program	-	-	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	15,000,000	15,000,000	25,000,000	25,000,000	2023	2047
	5182360722	Municipal Drain Program	-	-	-	-	-	-	100,000	25,000	100,000	25,000	600,000	150,000	800,000	200,000	2025	2047
	5182374950	Watercourse and Drainage Channel Maintenance	-	-	-	-	460,000	460,000	860,000	860,000	460,000	460,000	3,090,000	3,090,000	4,870,000	4,870,000	2024	2047
	5182061046	Osler Dr Outfall @ Grant Blvd	490,000	490,000	232,000	-	-	-	-	-	-	-	-	-	722,000	490,000	2020	2023
	5182317152	Right of Way Drainage Program	-	-	1,500,000	-	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	9,000,000	9,000,000	15,000,000	13,500,000	2023	2047
	5182317549	Concrete Box Culvert Rehab/Repair - T.O.M.	-	-	250,000	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,500,000	2,250,000	2023	2047
	5182318086	Culvert rehabilitation (Bridge 086) - Cross St, 25 metres south of Alma St	-	-	100,000	-	800,000	800,000	-	-	-	-	-	-	900,000	800,000	2023	2024
	5182361341	Sullivan's Lane (Dundas) Drainage Improvements	-	-	400,000	400,000	-	-	-	-	-	-	-	-	400,000	400,000	2023	2023
	5182761073	Large Sewermain Lining - Stanley Ave	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027
<b>Rehabilitation / Renovation Total</b>			<b>3,660,000</b>	<b>3,660,000</b>	<b>5,642,000</b>	<b>3,560,000</b>	<b>5,510,000</b>	<b>5,510,000</b>	<b>5,760,000</b>	<b>5,685,000</b>	<b>4,860,000</b>	<b>4,785,000</b>	<b>31,190,000</b>	<b>30,740,000</b>	<b>56,622,000</b>	<b>53,940,000</b>		
Replacement	5182361740	Unscheduled Manhole and Sewermain Replacement Program	-	-	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	1,200,000	2,000,000	2,000,000	2023	2047
	5182260220	Culvert FLA-3008 - Old Brock Rd 100m w/o Brock	-	-	169,000	-	-	-	-	-	-	-	-	-	169,000	-	2022	2023
	5182317458	Catch Basin Replacement/Rehabilitation Program	-	-	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,000,000	5,000,000	2023	2047
	5182318320	Woodhill Road Culvert	-	-	100,000	100,000	1,500,000	1,500,000	-	-	-	-	-	-	1,600,000	1,600,000	2023	2024
	5182372074	Contingency for Unscheduled Works Program	-	-	100,000	-	100,000	100,000	100,000	100,000	100,000	100,000	600,000	600,000	1,000,000	900,000	2023	2047
	5182872295	Main - Prospect to Gage - SERG B-3	-	-	-	-	-	-	-	-	-	-	1,710,000	1,710,000	1,710,000	1,710,000	2028	2028
<b>Replacement Total</b>			<b>-</b>	<b>-</b>	<b>1,069,000</b>	<b>800,000</b>	<b>2,300,000</b>	<b>2,300,000</b>	<b>800,000</b>	<b>800,000</b>	<b>800,000</b>	<b>800,000</b>	<b>6,510,000</b>	<b>6,510,000</b>	<b>11,479,000</b>	<b>11,210,000</b>		
Staffing Costs	5182301099	Engineering Services Staffing Costs - Storm	-	-	1,600,000	1,600,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	10,200,000	10,200,000	16,900,000	16,900,000	2023	2047
<b>Staffing Costs Total</b>			<b>-</b>	<b>-</b>	<b>1,600,000</b>	<b>1,600,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>10,200,000</b>	<b>10,200,000</b>	<b>16,900,000</b>	<b>16,900,000</b>		
Network Extension	5182360315	Parkside Drive Fire/EMS Facility Servicing	-	-	100,000	100,000	2,340,000	2,340,000	-	-	-	-	-	-	2,440,000	2,440,000	2023	2024
<b>Network Extension Total</b>			<b>-</b>	<b>-</b>	<b>100,000</b>	<b>100,000</b>	<b>2,340,000</b>	<b>2,340,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,440,000</b>	<b>2,440,000</b>		
Coordinated - Rehabilitation	5182471322	Birch Ave (Phase 2) - Princess St to Burlington St	-	-	-	-	150,000	150,000	-	-	-	-	-	-	150,000	150,000	2024	2024
<b>Coordinated - Rehabilitation Total</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150,000</b>	<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150,000</b>	<b>150,000</b>		
<b>Grand Total</b>			<b>9,540,000</b>	<b>7,840,000</b>	<b>31,290,000</b>	<b>14,822,000</b>	<b>75,182,000</b>	<b>29,650,000</b>	<b>38,720,000</b>	<b>34,645,000</b>	<b>26,470,000</b>	<b>21,339,000</b>	<b>223,930,000</b>	<b>197,588,000</b>	<b>405,132,000</b>	<b>305,884,000</b>		

## Appendix "S" to Report FCS22054 Page 1 of 1

**CITY OF HAMILTON**  
**2023 Rate Program Capital Budget Summary**  
**(\$000'S)**

							Financing Source	
Gross Costs	Subsidy/ Other Revenues	Development Charges	WIP / Other Internal Sources	Reserves	Net Cost	Contribution From Operating	External Borrowings (Debentures)	
<b>2023</b> Coordinated - Network Extension	2,715	-	-	1,865	-	-	850	850
Coordinated - Other	3,770	-	-	-	-	-	3,770	3,770
Coordinated - Rehabilitation	150	-	-	-	-	-	150	150
Coordinated - Replacement	11,760	-	-	270	-	2,309	9,181	4,181
Coordinated - Upgrade	2,795	2,220	-	-	-	-	575	575
Coordinated Replacement (50/50)	2,600	-	-	-	-	-	2,600	2,600
Demolition / Disposal	-	-	-	-	-	-	-	-
Enhancement	16,016	-	-	-	5,750	2,500	7,766	7,766
Expansion / Extension	17,408	-	-	14,898	-	-	2,510	2,510
Feasibility Plans / EA's/ Studies	27,271	-	-	12,981	1,379	849	12,062	12,062
Licenses	330	-	-	-	-	-	330	330
Network Extension	2,010	-	-	1,235	-	-	775	775
New	40,388	-	-	33,438	-	-	6,950	6,950
Rehabilitation / Renovation	92,310	-	-	5,874	-	17,970	68,466	58,574
Replacement	23,623	934	-	2,250	-	339	20,100	20,100
Safety/ Security	1,060	-	-	-	-	-	1,060	1,060
Staffing Costs	11,100	-	-	-	-	-	11,100	11,100
<b>Total</b>	<b>255,306</b>	<b>3,154</b>	<b>-</b>	<b>72,811</b>	<b>7,129</b>	<b>23,967</b>	<b>148,246</b>	<b>133,353</b>

**City of Hamilton Treasurer's Updated 2022 Annual Repayment Limit**

2022 Annual Repayment Limit - effective January 1, 2022, as prepared by the Ministry of Municipal Affairs and Housing on March 3, 2022, based on 2020 Financial Information Return	\$293,261,529
Annual debt service charges on City Municipal debt approved to-date 2022 and prior years but not yet issued (\$832.676 M @ 5.5% for 15-year term)	-\$82,955,844
Annual debt service charges on City Municipal debt in respect of ICIP Transit debt approved but not yet issued (\$91.2895 M @ 5.5% for 15-year term)	-\$9,094,771
Annual debt service charges on City Municipal debt in respect of West Harbour debt approved but not yet issued (\$48.8 M @ 5.5% for 15-year term)	-\$4,861,729
Annual debt service charges on City Housing Hamilton debt approved but not yet issued and guaranteed by City of Hamilton (\$128.688 M @ 5% for 30-year term)	-\$8,371,323
Annual debt service charges on Municipal and Tax Supported Development Charges debt approved but not yet issued - Police Station 40 (\$11.585 M @ 5.5% for 15-year term)	-\$1,154,163
Annual debt service charges on Municipal and Tax Supported Development Charges debt approved but not yet issued - Stadium Precinct (\$16.8 M @ 5.5% for 15-year term)	-\$1,673,710
Annual debt service charges in 2022 for debenture issue of \$51.705 M;	-\$4,093,313
Annual debt service charges on debentures discharged in 2020-2022	\$282,017
Adjustment for annual debt service charges on outstanding City Housing Hamilton mortgages and City of Hamilton Tangible Capital Leases	-\$7,139,086
Updated 2022 Annual Repayment Limit - a calculation by the Treasurer representing an estimate of the maximum amount available to commit to annual debt service charges	\$174,199,608
Debenture amount at 5.5% interest rate for 15-year term (amortizer) corresponding to the annual debt service charges of \$174,199,608	\$1,748,542,669



Hamilton

**POLICY TITLE: New Development Water Customer Attachment Billing Policy**

POLICY NO: PP-0014

LAST REVISION DATE: May 2020

EFFECTIVE DATE: January 1, 2023

MANAGER REVIEWED: Kirk Weaver

TO BE REVIEWED: January 2028

MAINTENANCE RESPONSIBILITY: Senior Policy Advisor, Financial Planning, Administration and Policy Division

## I GENERAL

The New Development Water Customer Attachment Billing Policy (Policy) details the processes for the commencement of water and wastewater / storm billings related to new development construction of single residential, Industrial / Commercial/Institutional (ICI) and multi-residential properties.

## II BACKGROUND

The City's Waterworks By-law R84-026 (By-law) stipulates that all properties, once connected to the City's waterworks system, are to install a water meter and remote reading device. However, non-metered water is being supplied to properties with newly installed water services during construction of new developments and before the installation of a water meter. This Policy ensures that the commencement of water and wastewater / storm billings associated with new development construction occurs in a timely and consistent manner.

## III POLICY

### Single Residential New Developments

#### Billing Policy

Water billing will commence on the date of the first insulation inspection in one of the following manners:

- 1) Metered - If a meter is installed, the billing will reflect actual water consumption
- 2) Unmetered - If a meter is not installed, billing will occur on a flat rate basis (1 cubic metre per day) until the meter has been installed. To avoid unmetered flat rate billings, the property owner should ensure the water meter has been installed before requesting an insulation inspection.

Metering Stakeholders

Stakeholders	Key Roles and Responsibilities
Property Owner <ul style="list-style-type: none"> <li>▪ individual / developer / contractor</li> </ul>	<ul style="list-style-type: none"> <li>▪ Initiates development with purchase of building and servicing permits (meter installation and construction water fees paid with building permit)</li> </ul>
Building Division	<ul style="list-style-type: none"> <li>▪ Issues building and servicing permits</li> <li>▪ Performs inspections associated with building permit</li> <li>▪ Will not schedule occupancy inspection unless water meter has been installed</li> </ul>
Financial Planning, Administration and Policy Division	<ul style="list-style-type: none"> <li>▪ Provides Alectra a monthly listing of new residential properties that have reached the insulation inspection stage of the building permit process</li> </ul>
Hamilton Water Customer Service Section	<ul style="list-style-type: none"> <li>▪ Manages water meter installations</li> <li>▪ Forwards meter installation work orders to meter contractor</li> <li>▪ Forwards completed meter installation work orders to Alectra for billing purposes</li> </ul>
Meter Contractor - Neptune Technology Group	<ul style="list-style-type: none"> <li>▪ Supplies, installs and replaces water meters for Hamilton Water</li> </ul>
Alectra Utilities	<ul style="list-style-type: none"> <li>▪ City's water and wastewater/storm billing agent</li> <li>▪ Commences water billings for new homes based on direction from City</li> </ul>

Note: Detailed process flowchart of the related meter installation process is available upon request.

**Multi-residential and Industrial / Commercial / Institutional (ICI) New Developments**

**Billing Policy**

Water billing will commence on an unmetered/ flat rate basis on the date when water is turned on at the property in the following manners:

- 1) "Single" unmetered basis – Billing will occur on a flat rate basis until the meter has been installed or the date of the initial plumbing inspection. Flat rates are progressive based on the size of the meter that will be installed (refer to the table below), for example 4m<sup>3</sup>/day flat rate where a 50mm meter will be installed.
- 2) "Triple" unmetered basis - If a meter is not installed at the date of the initial plumbing inspection, billing will change to triple flat rate until the meter has been installed. To avoid unmetered triple flat rate billings, the property owner would need to ensure that the water meter has been installed before a plumbing inspection is requested.

**Unmetered Rates by Meter Size**

Meter to be installed		Unmetered m3/day	2020 Costs *	
inches	mm		Daily	Monthly **
< 1	15-21	1.0	\$ 3.39	\$ 101.70
1	25	1.5	\$ 5.09	\$ 152.55
1.5	38	2.5	\$ 8.48	\$ 254.25
2	50	4	\$ 13.56	\$ 406.80
3	75	9	\$ 30.51	\$ 915.30
4	100	16	\$ 54.24	\$ 1,627.20
6	150	36	\$ 122.04	\$ 3,661.20
8	200	64	\$ 216.96	\$ 6,508.80
10	250	100	\$ 339.00	\$ 10,170.00

\* Combined water & wastewater / storm.

\* Rates set annually as part of Rate Budget Process.

\*\* 30-day month

**Metering Stakeholders**

Stakeholders	Key Roles and Responsibilities
Property Owner <ul style="list-style-type: none"> <li>▪ individual / developer / contractor</li> </ul>	<ul style="list-style-type: none"> <li>▪ Initiates development with purchase of servicing (construction water fees paid with servicing permit), water meter and building permits</li> </ul>
Growth Management Division <ul style="list-style-type: none"> <li>▪ Development Approvals Section</li> </ul>	<ul style="list-style-type: none"> <li>▪ Issues water servicing and water meter permits (at the same time)</li> </ul>

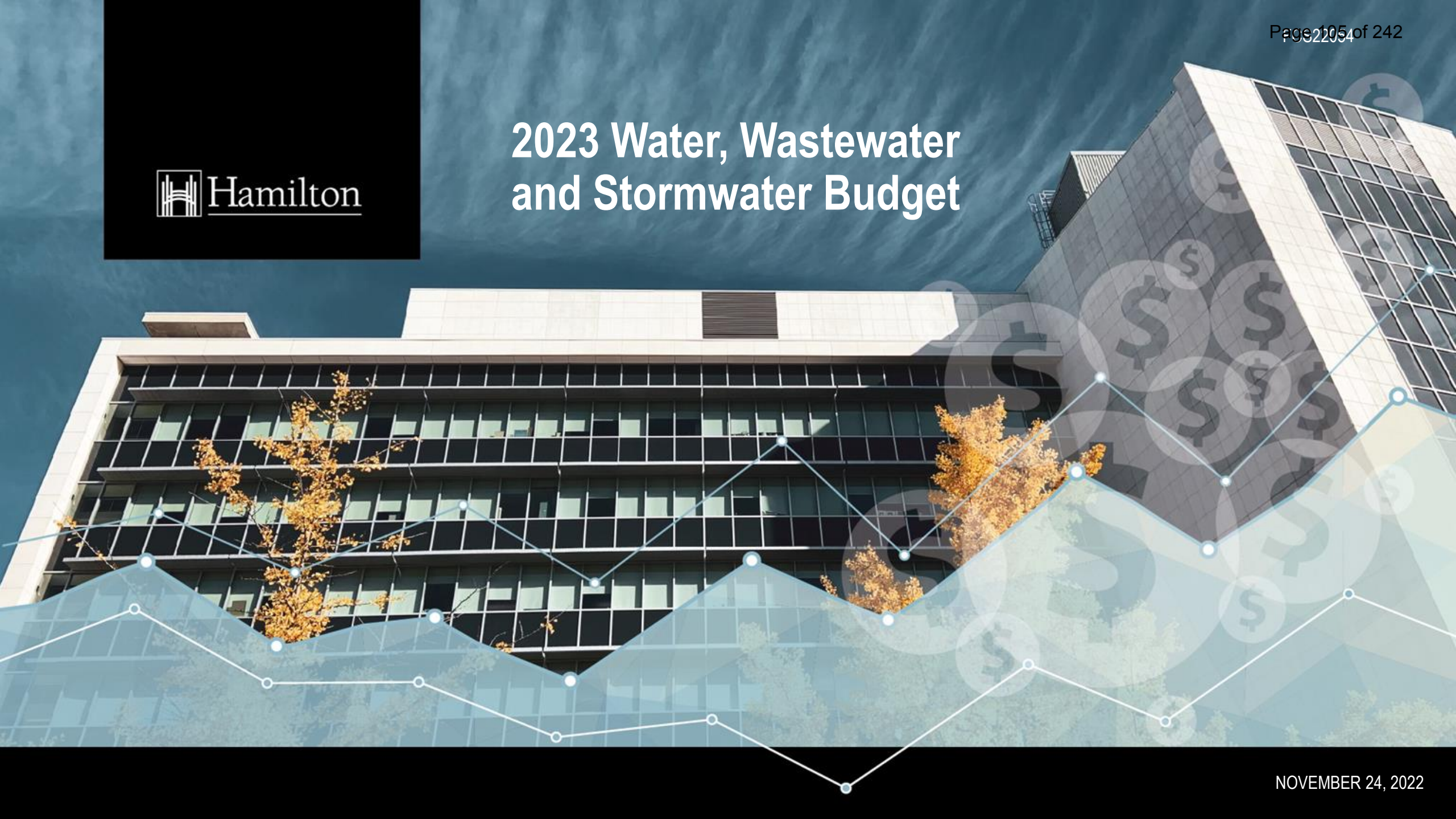
	<ul style="list-style-type: none"> <li>▪ Provides copies of permits to Meter Operations</li> </ul>
<p>Growth Management Division</p> <ul style="list-style-type: none"> <li>▪ Construction Section</li> </ul>	<ul style="list-style-type: none"> <li>▪ Issues water servicing and water meter permits (objective to issue both at the same time)</li> <li>▪ Provides copies of water permits to Hamilton Water Meter Operations</li> <li>▪ Activate water services; where meter is to be installed at the property line in a chamber and requires a meter spacer, water is not to be activated until after spacer is installed</li> <li>▪ Advise Meter Operations and Finance of all water service line activations including dedicated fire lines</li> </ul>
<p>Building Division</p>	<ul style="list-style-type: none"> <li>▪ Issues building permits</li> <li>▪ Performs inspections associated with building permit</li> <li>▪ Where water meter is not installed at the property line, will not schedule occupancy inspection unless the meter has been installed</li> </ul>
<p>Financial Planning, Administration and Policy Division</p>	<ul style="list-style-type: none"> <li>▪ Advises Alectra to commence unmetered/flat rate billings</li> <li>▪ Identifies properties that have reached the plumbing inspection stage of the building permit process and advises Alectra where no meter has been installed to increase to triple unmetered/flat rates</li> </ul>
<p>Hamilton Water Customer Service</p>	<ul style="list-style-type: none"> <li>▪ Manages water meter installations</li> <li>▪ Forwards meter installation work orders to meter contractor</li> <li>▪ Forwards completed meter installation work orders to Alectra for billing purposes</li> </ul>
<p>Meter Contractor - Neptune Technology Group</p>	<ul style="list-style-type: none"> <li>▪ Supplies, installs and replaces water meters for Hamilton Water</li> </ul>
<p>Alectra Utilities</p>	<ul style="list-style-type: none"> <li>▪ City's water and wastewater / storm billing agent</li> <li>▪ Commences water billings based on direction from City</li> </ul>

Note: Detailed process flowchart of the related meter installation process is available upon request.





# 2023 Water, Wastewater and Stormwater Budget



## 2023 Water, Wastewater and Stormwater Budget

## 2023 RATE BUDGET

## Snap Shot

Operating

- **\$272.4 M** Total Program Expenditures
- **\$269.4 M** Rate Revenue
- **\$3.0 M** Non-Rate Revenue

Capital

- **\$255.3 M** Rate Capital Program
  - 46% Water
  - 42% Wastewater
  - 12% Storm
- **\$3.27 B** capital investment forecast (2023 to 2032)
- **\$0.57 B** increase from last year's 10-year forecast

**Impact of Recommended 2023  
Rate Increases on a Typical  
Residential Bill: 6.49%**

*Based on annual water consumption of  
200m<sup>3</sup>*

# 2023 Water, Wastewater and Stormwater Budget

## 2023 RATE OPERATING BUDGET

### By the Numbers

Summary of the 2023 Operating Budget				
(\$ millions)	2022 Restated Budget	2023 Requested Budget	2023 Requested / 2022 Restated Change	
			\$	%
<b>Expenditures</b>				
Program Expenditures	\$ 98.4	\$ 108.5	\$ 10.1	10.3%
Capital/Debt / Reserve Financing	\$ 159.4	\$ 163.9	\$ 4.5	2.8%
<b>Total Expenditures</b>	<b>\$ 257.9</b>	<b>\$ 272.4</b>	<b>\$ 14.6</b>	<b>5.7%</b>
<b>Revenues</b>				
Rate Revenue	\$ 254.9	\$ 269.4	\$ 14.5	5.7%
Non-Rate Revenue	\$ 2.9	\$ 3.0	\$ 0.1	3.0%
<b>Total Revenue</b>	<b>\$ 257.9</b>	<b>\$ 272.4</b>	<b>\$ 14.6</b>	<b>5.7%</b>
<b>Average Residential Water / Wastewater / Storm Bill</b>	<b>\$ 823.85</b>	<b>\$ 877.30</b>	<b>\$ 53.45</b>	<b>6.49%</b>

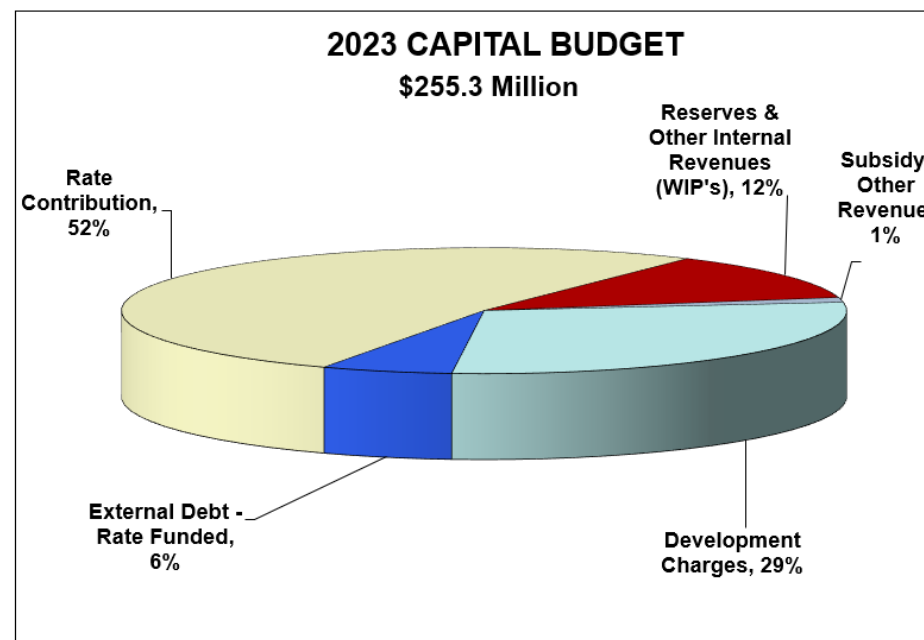
*Note: Anomalies due to rounding*

# 2023 RATE CAPITAL BUDGET

## Sources of Funding

**\$133.4 M** from Operating  
**\$ 72.8 M** Development Charges  
**\$ 23.9 M** Work-in-progress (WIP)  
**\$ 14.9 M** Debt  
**\$ 7.1 M** Reserves  
**\$ 3.2 M** Grants

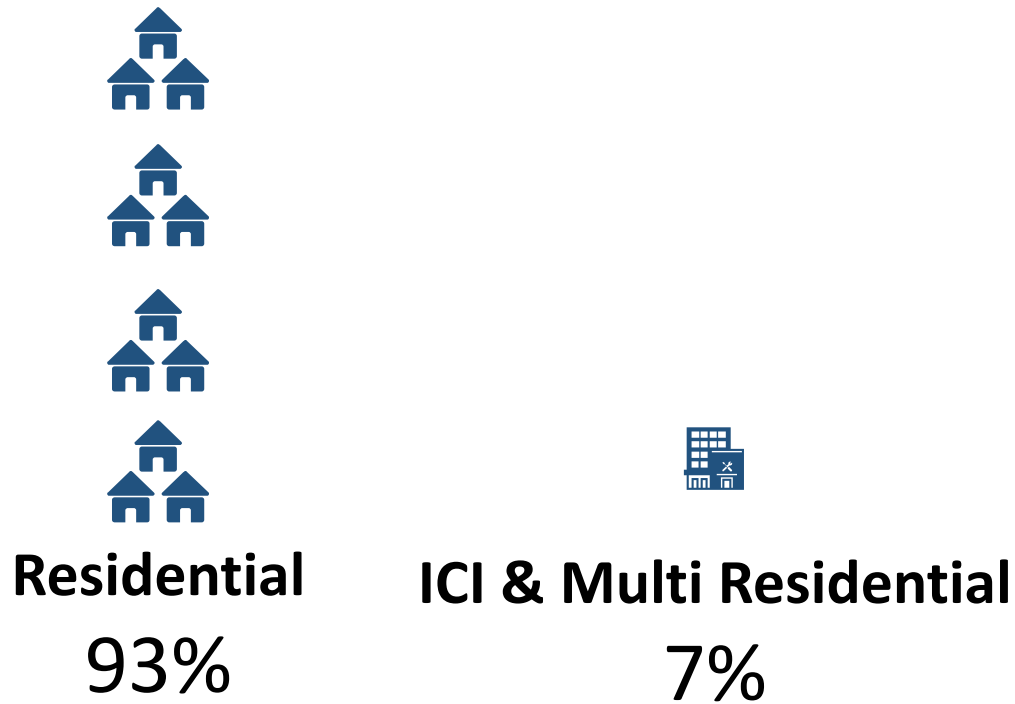
**= \$255.3 M Gross Capital Funding**



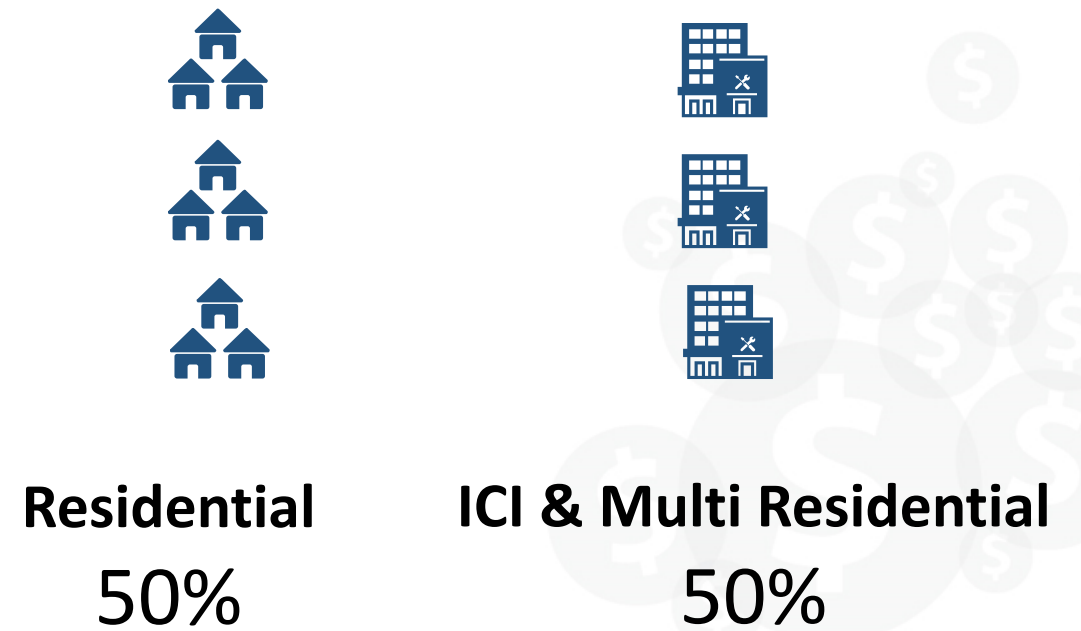
# 2023 METERED ACCOUNTS & REVENUE BY SECTOR

Where the \$ come from

## Metered Accounts by Sector



## Consumption by Sector

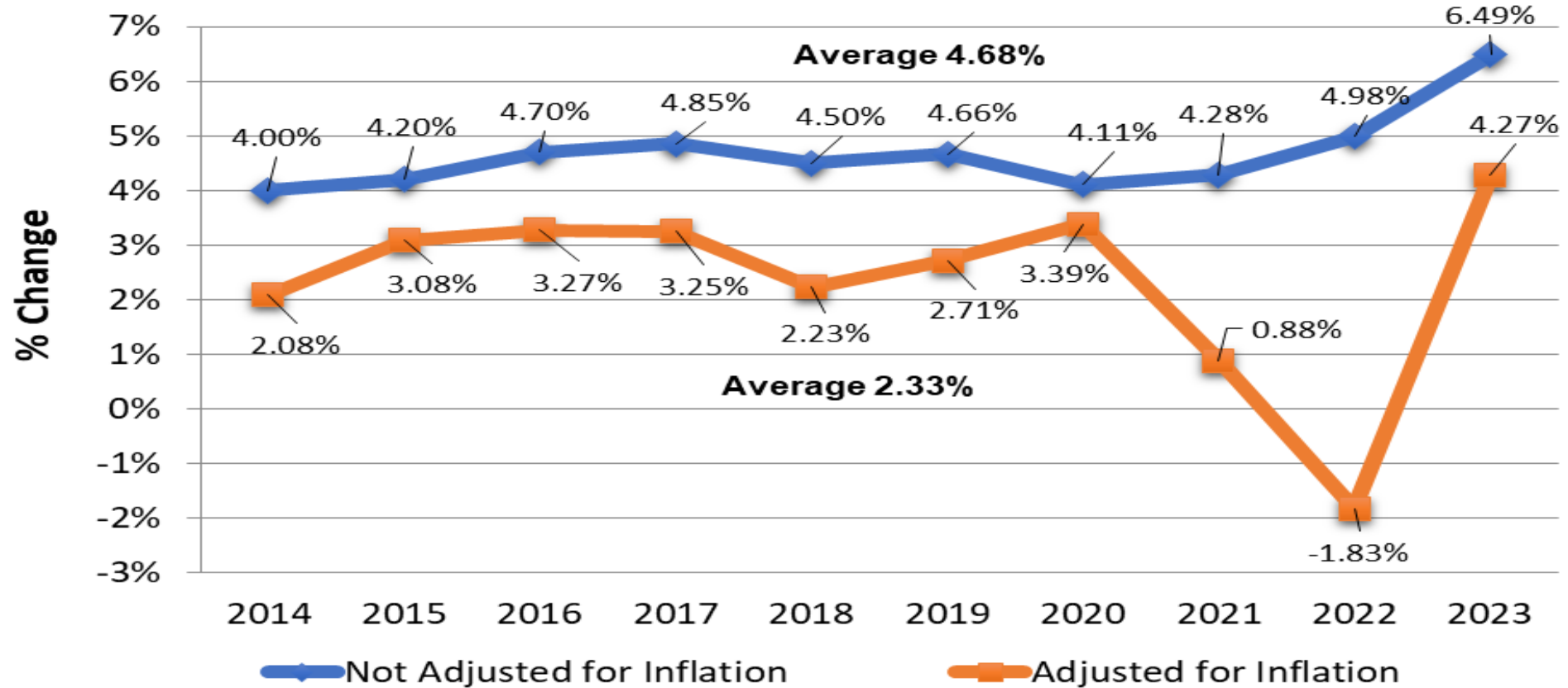


# FINANCING STRATEGY



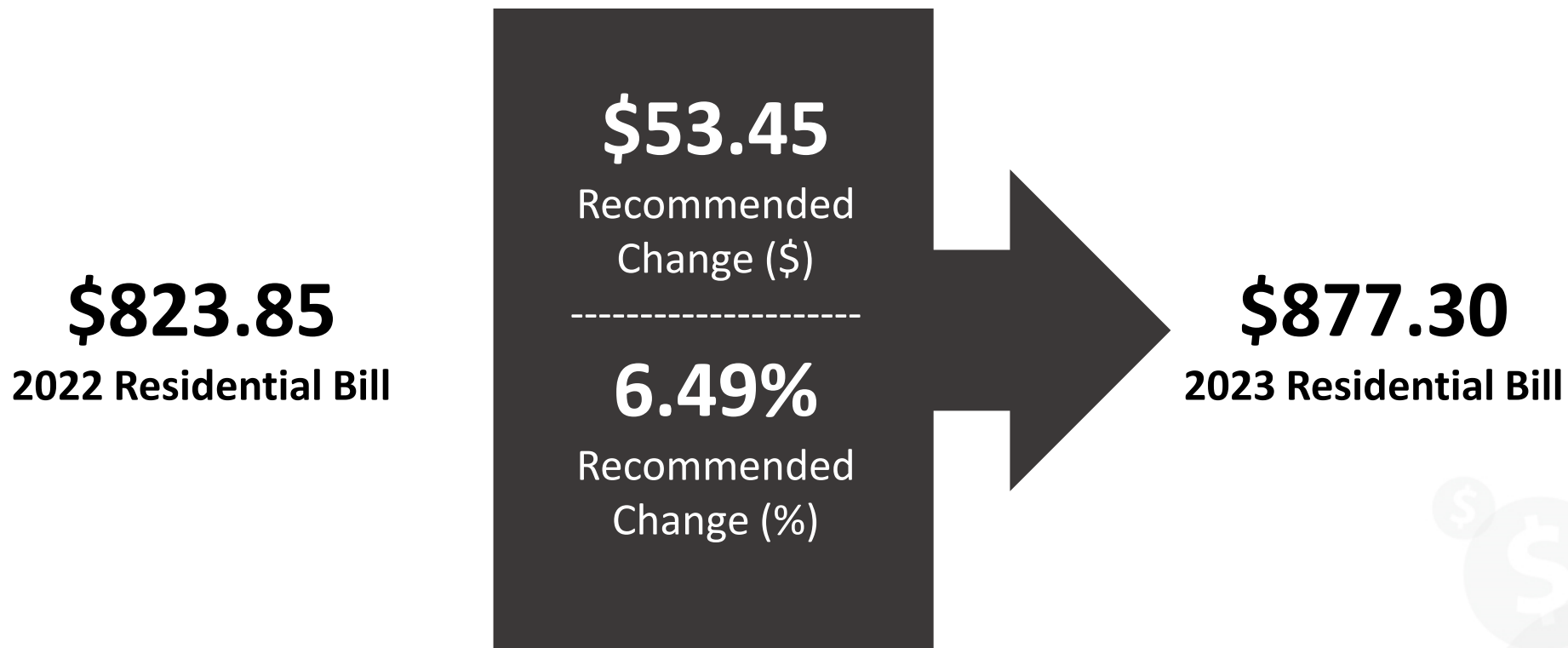
# 2023 Water, Wastewater and Stormwater Budget

## 10 YEAR RATE INCREASE TREND Water & Wastewater/Storm Rate Changes 2014 to 2023



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
<b>Average Res. Increase</b>	\$ 23.22	\$ 24.10	\$ 28.55	\$ 30.60	\$ 29.75	\$ 32.20	\$ 29.70	\$ 32.20	\$ 39.05	\$ 53.45

# 2023 RESIDENTIAL AVERAGE BILL

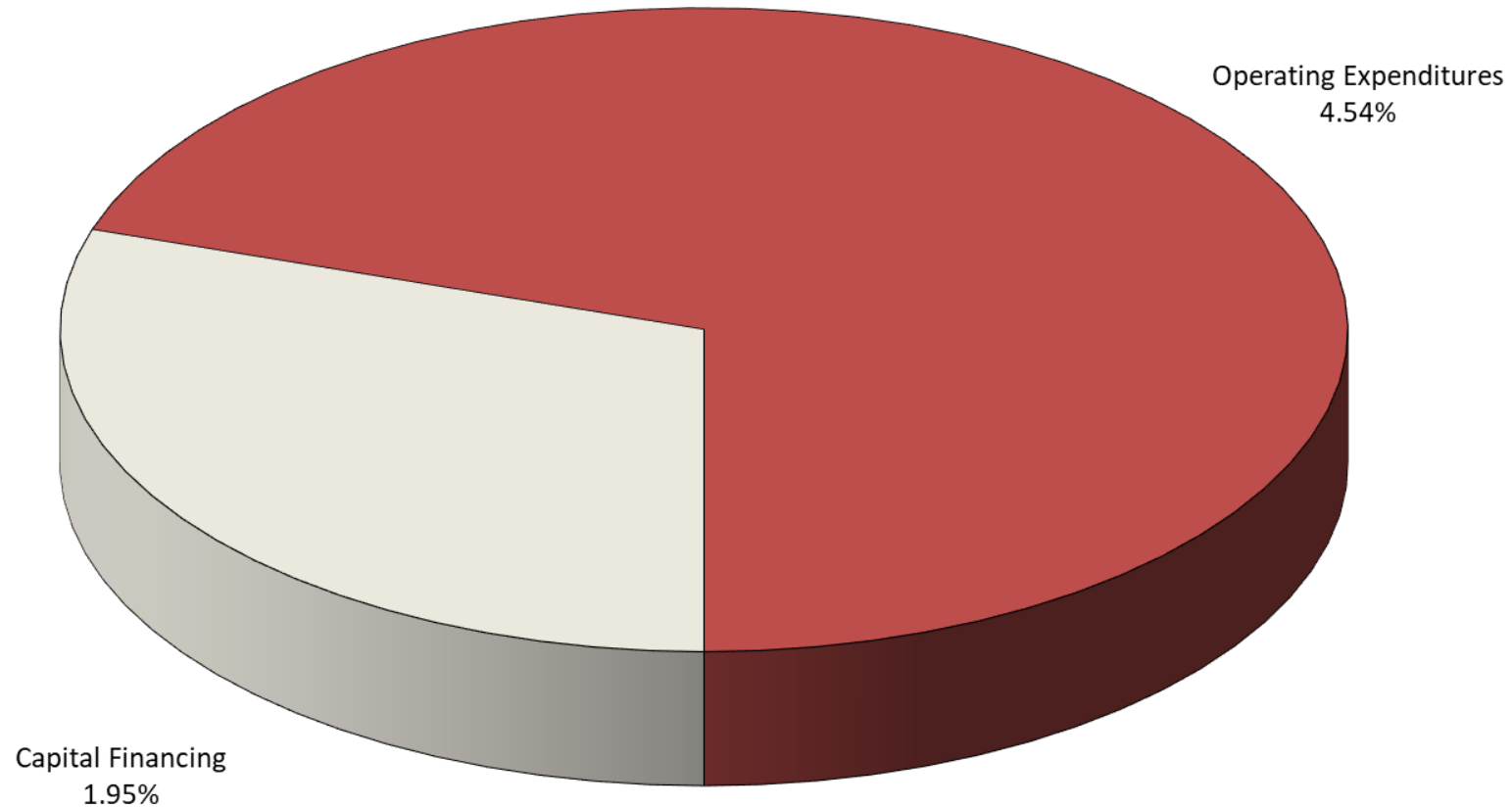


**Impact of Recommended 2023 Water and Wastewater/Storm Rate Increases on a Typical Residential Bill: 6.49%**  
*Based on annual water consumption of 200m<sup>3</sup>*



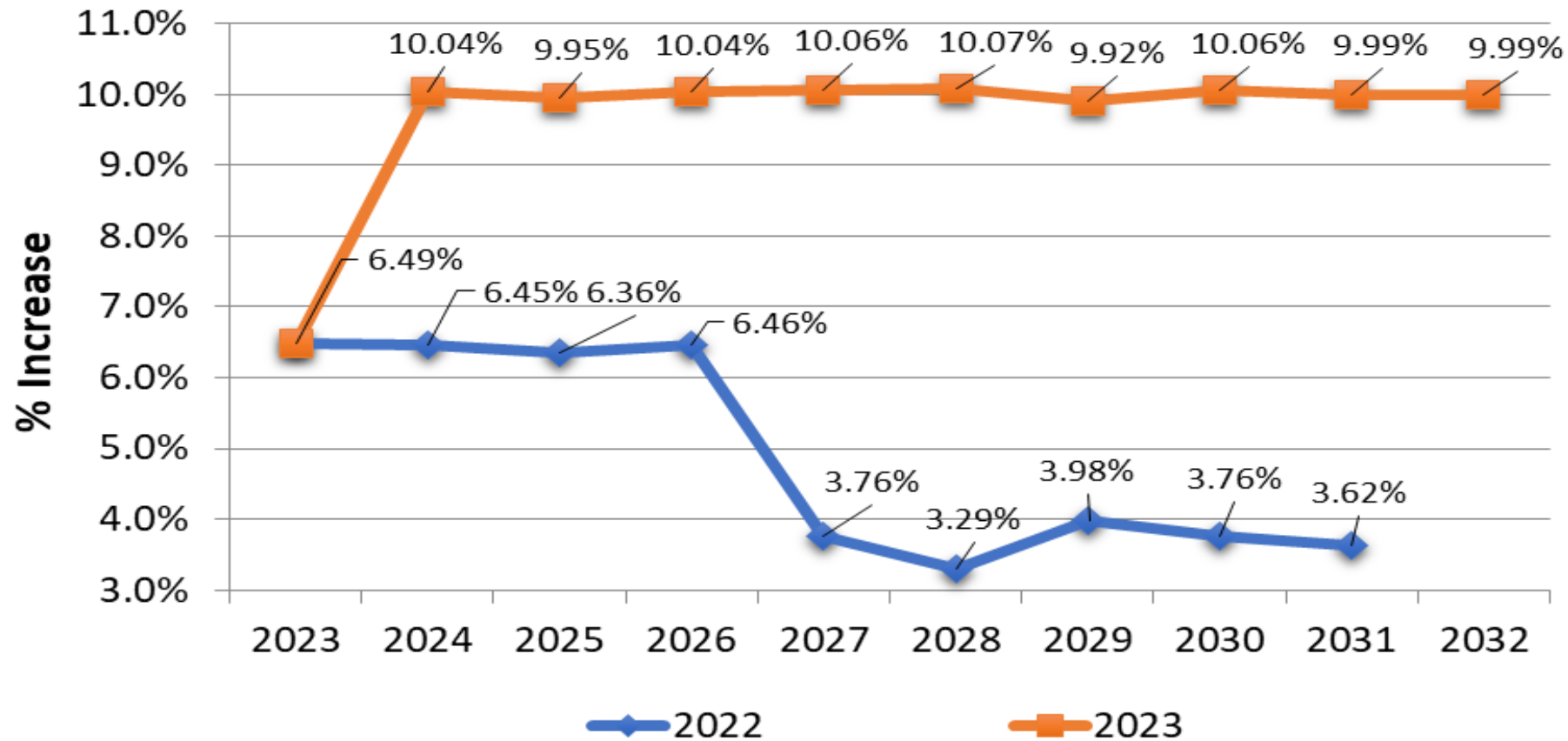
# 2023 RATE INCREASE DRIVERS

Drivers of 6.49% Rate Increase



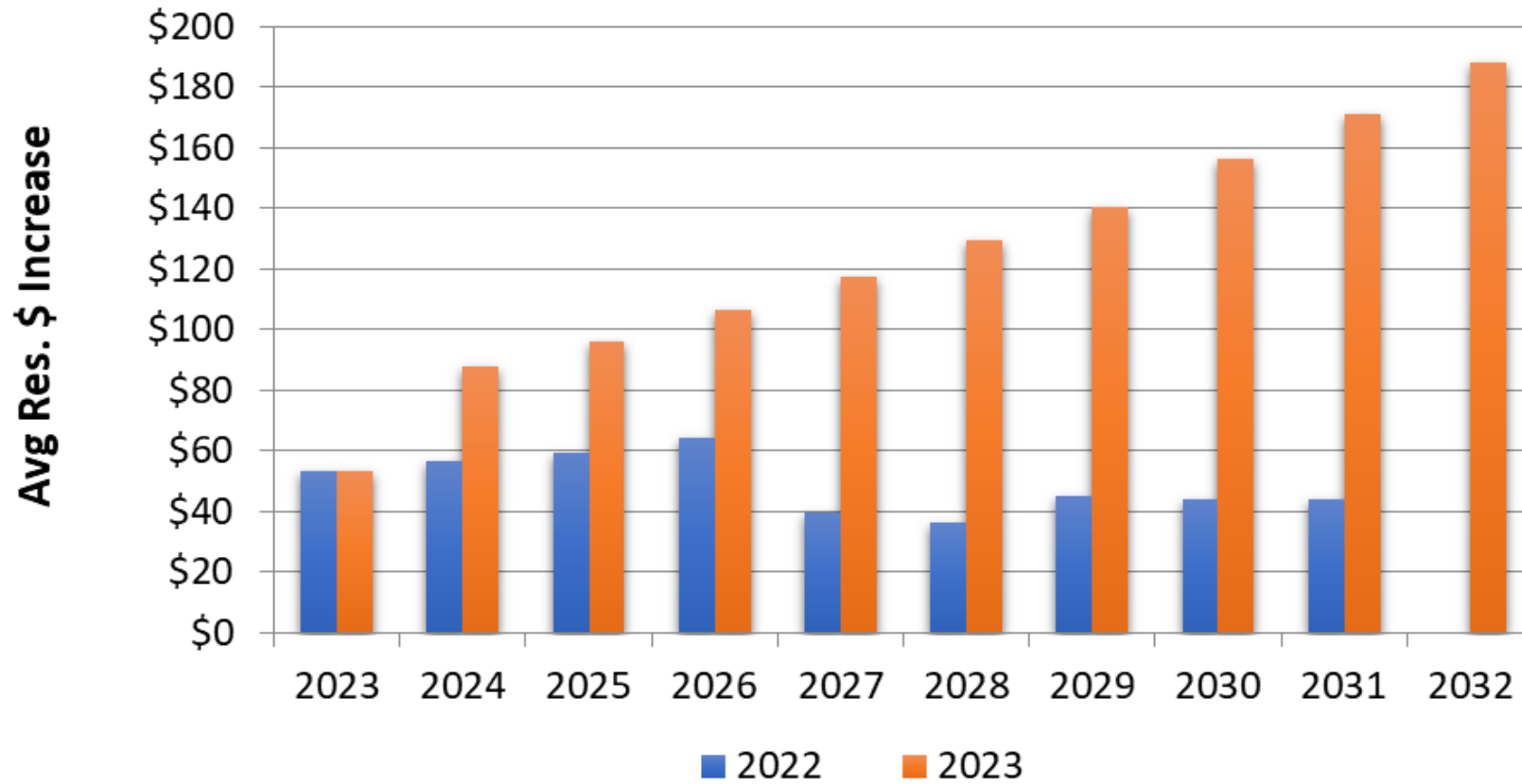
# 2023 RATE SUPPORTED FINANCING STRATEGY

## 2022 vs 2023 Financing Strategy Average Residential Increase

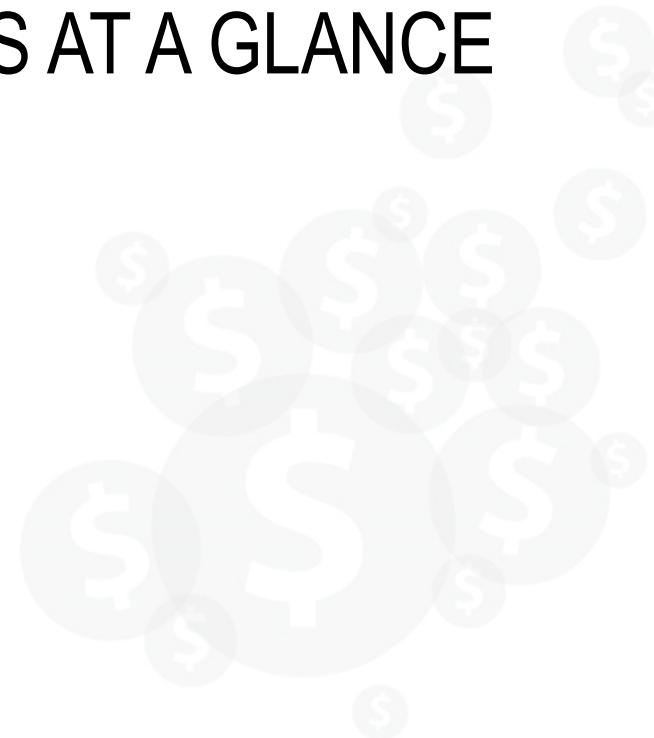


# 2023 RATE SUPPORTED FINANCING STRATEGY

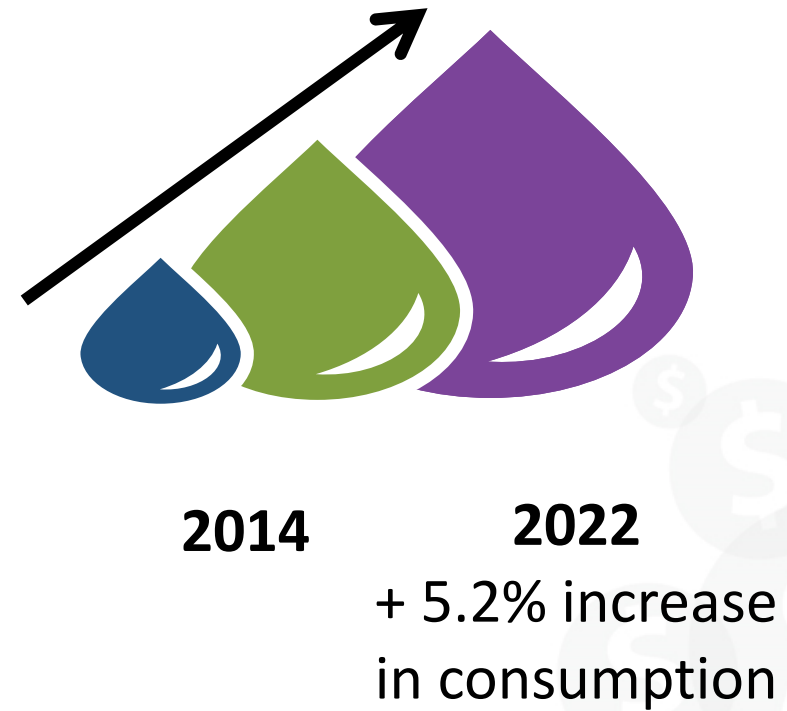
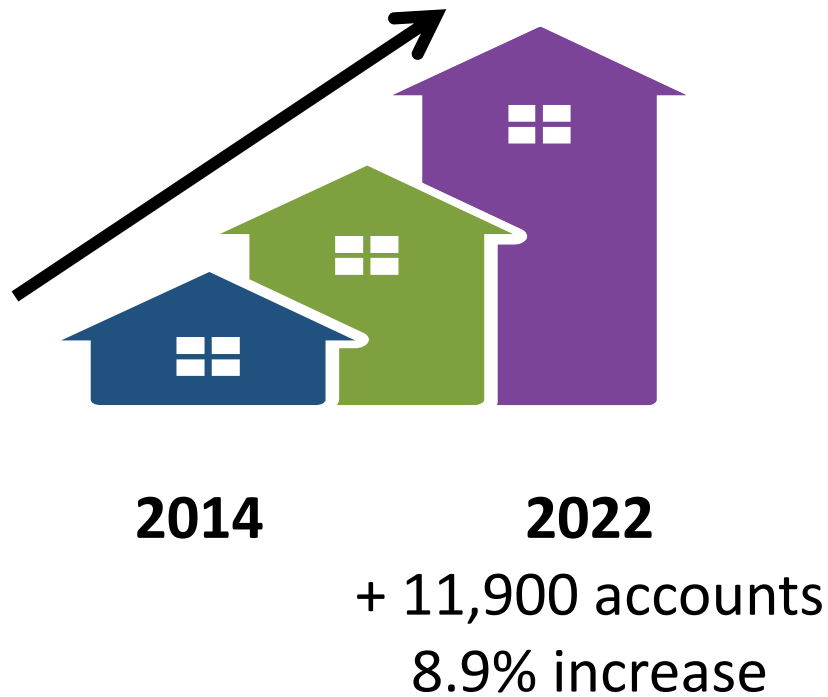
## 2022 vs 2023 Financing Strategy Average Residential Increase



# CONSUMPTION TRENDS AT A GLANCE



# RESIDENTIAL WATER CONSUMPTION



# 4 YEAR WATER CONSUMPTION FORECAST (M<sup>3</sup>)



2022 → 2025  
**SLIGHT GROWTH**  
Residential



2022 → 2025  
**SLIGHT DECLINE**  
ICI/ Multi Res



(Aldershot  
Water Only)

2022 → 2025  
**CONSISTENT**

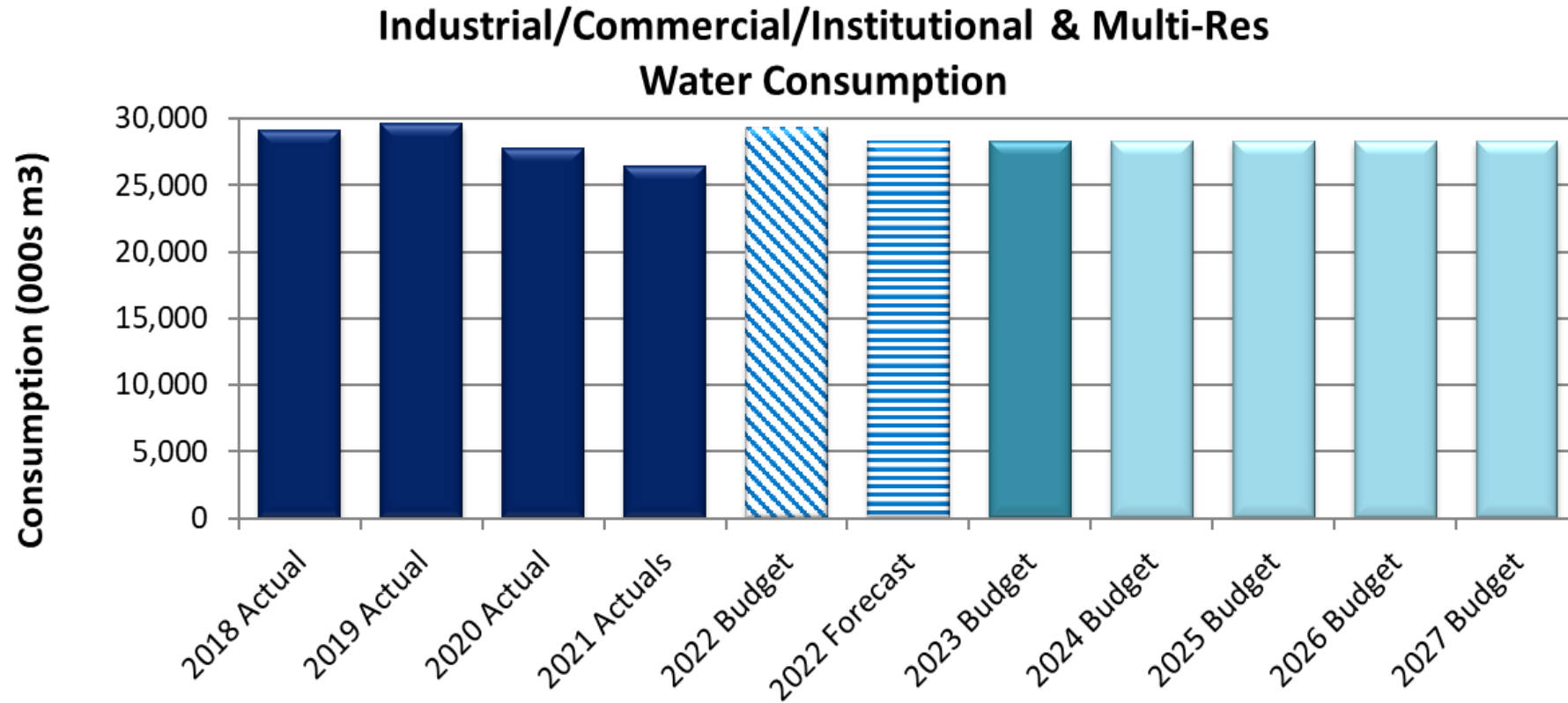


(Caledonia & Cayuga  
Water Only)

2022 → 2025  
**SLIGHT GROWTH**

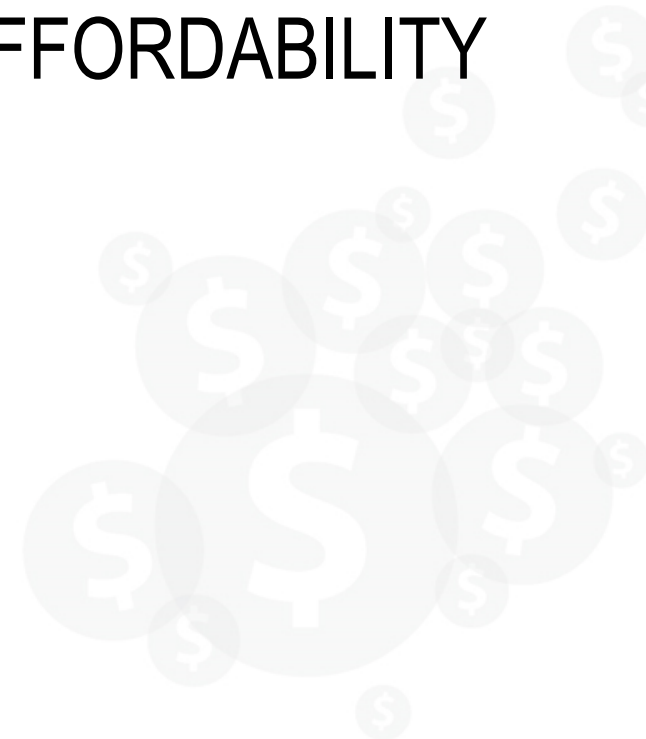
# 2023 Water, Wastewater and Stormwater Budget

## ICI & MR CONSUMPTION FORECAST



**Budgeted consumption has been decreased for the 2023 Budget to just over 28M m<sup>3</sup>**

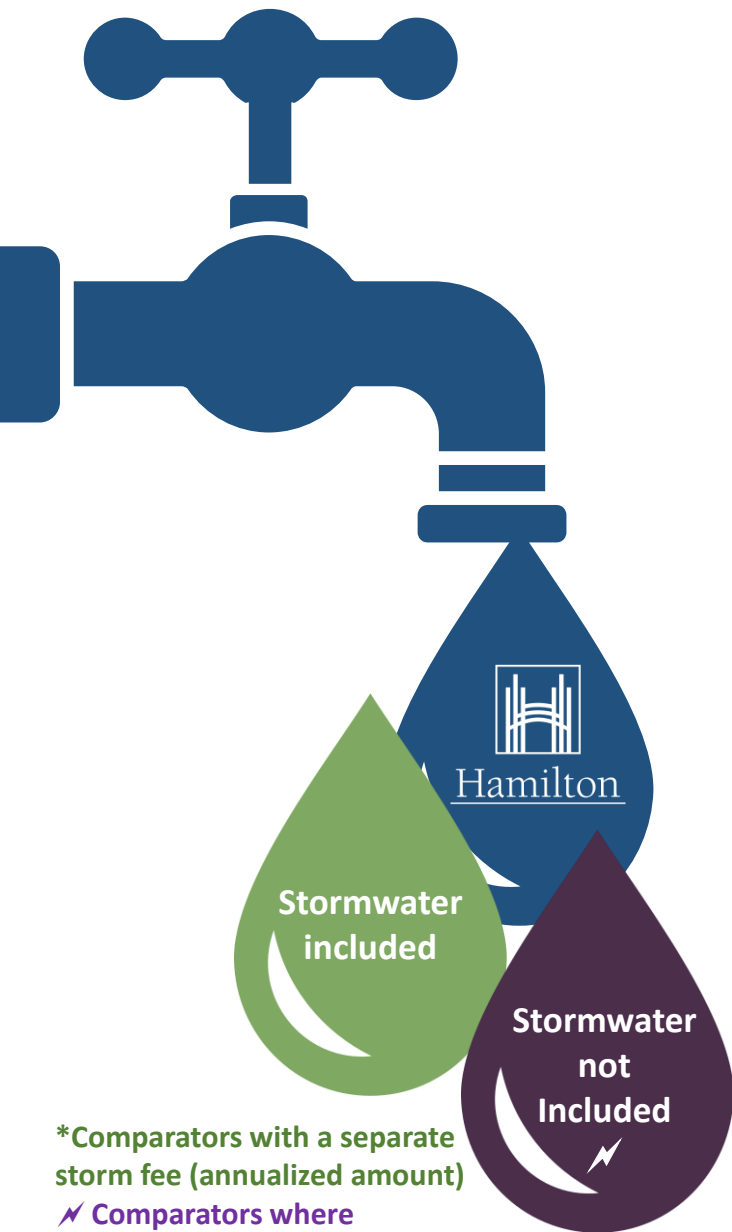
# MUNICIPAL COMPARATORS AFFORDABILITY





# 2023 Water, Wastewater and Stormwater Budget

## HOW DOES HAMILTON COMPARE?



- \*Kitchener: \$1,566 (\$208)
- ⚡ Norfolk: \$1,539
- ⚡ West-Lincoln: \$1,263
- ⚡ Cambridge: \$1,199
- \*London: \$1,183 (\$216)
- \*Waterloo: \$1,083 (\$115)
- ⚡ Haldimand: \$1,062
- \*Guelph: \$1,068 (\$84)
- ⚡ St. Catharines: \$1,050
- ⚡ Brantford: \$981
- ⚡ Halton: \$952
- ⚡ Durham: \$937
- Toronto: \$852
- Hamilton: \$824**
- \*Peel: \$699 (\$113)

**2022 Water Bill**  
**Residential**  
 200m<sup>3</sup>/ (year)

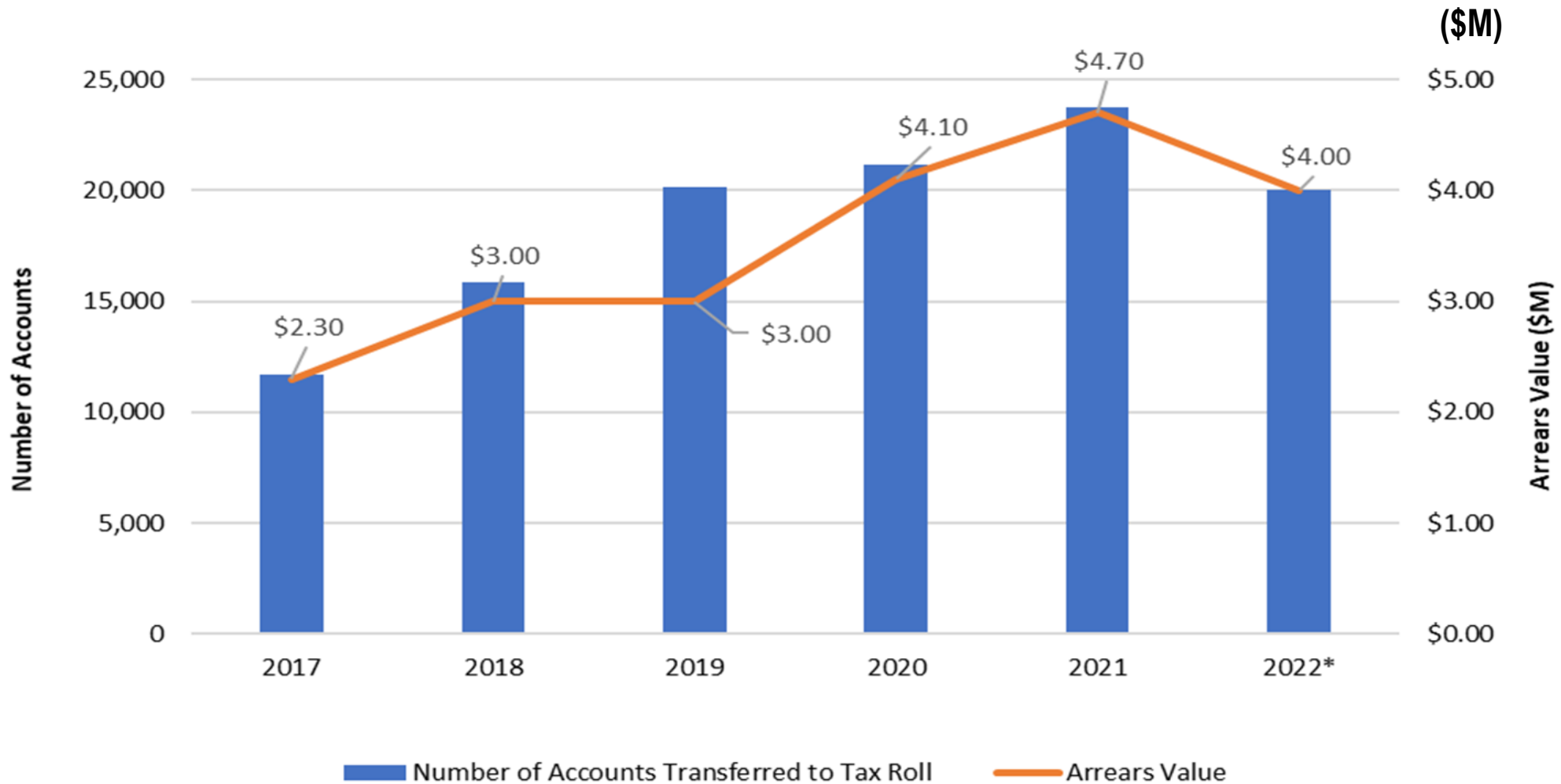
**Survey Average**  
**\$1,084**

**Hamilton provides three services for less than some municipalities which offer two**

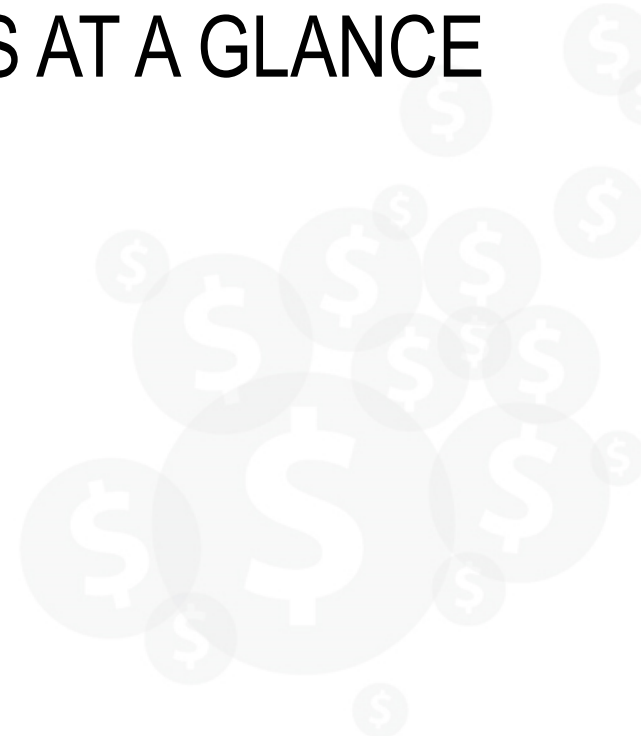
\*Comparators with a separate storm fee (annualized amount)  
 ⚡ Comparators where Stormwater funded by property tax

# 2023 Water, Wastewater and Stormwater Budget

## ARREARS TAX ROLL TRANSFERS

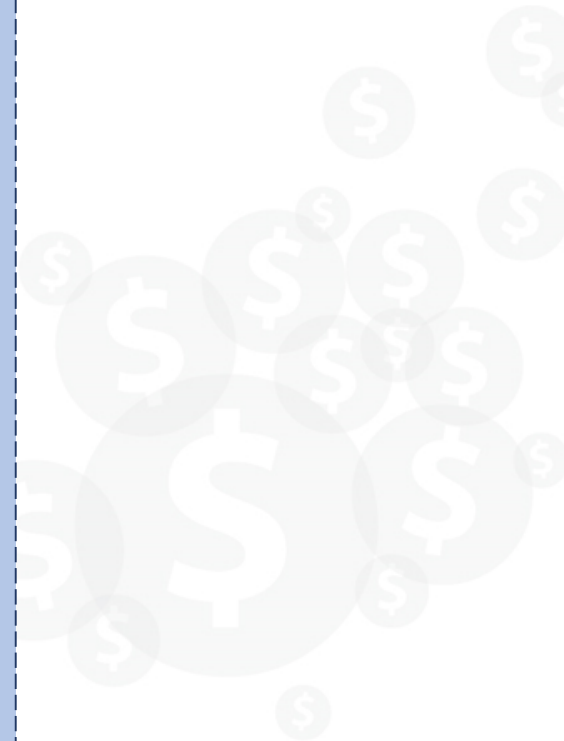
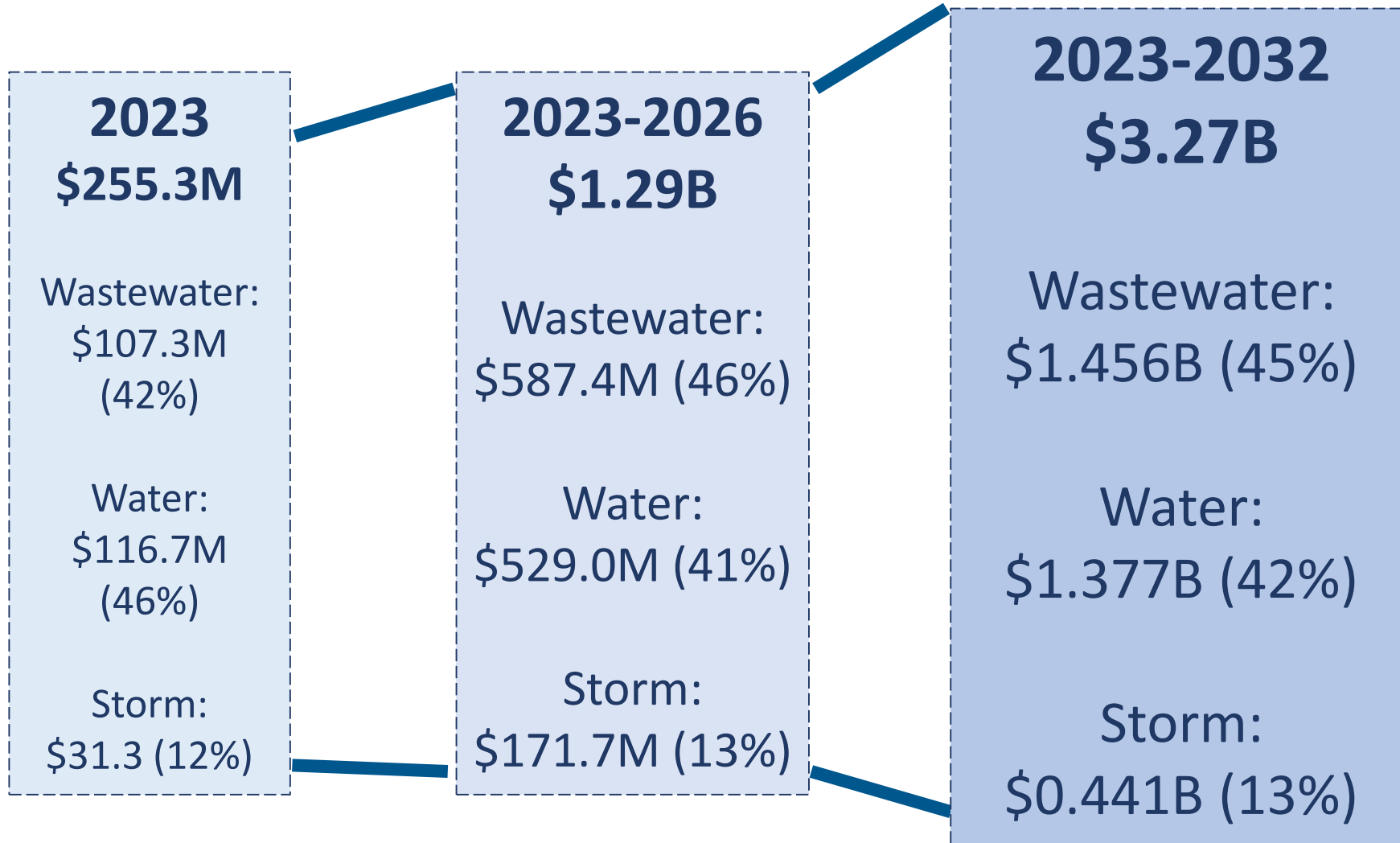


# CAPITAL INVESTMENTS AT A GLANCE



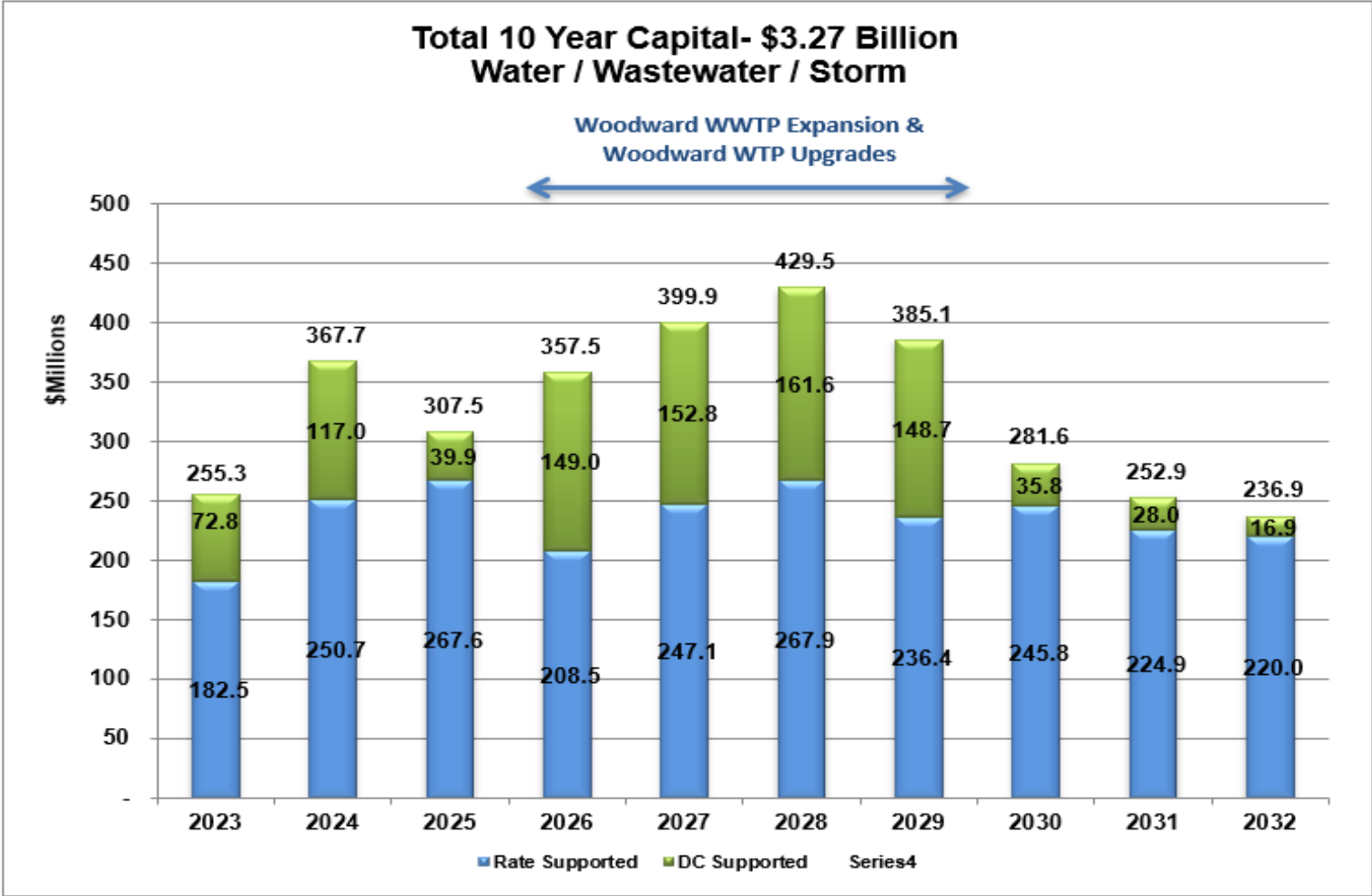
# LONG TERM CAPITAL PROGRAM

At a Glance



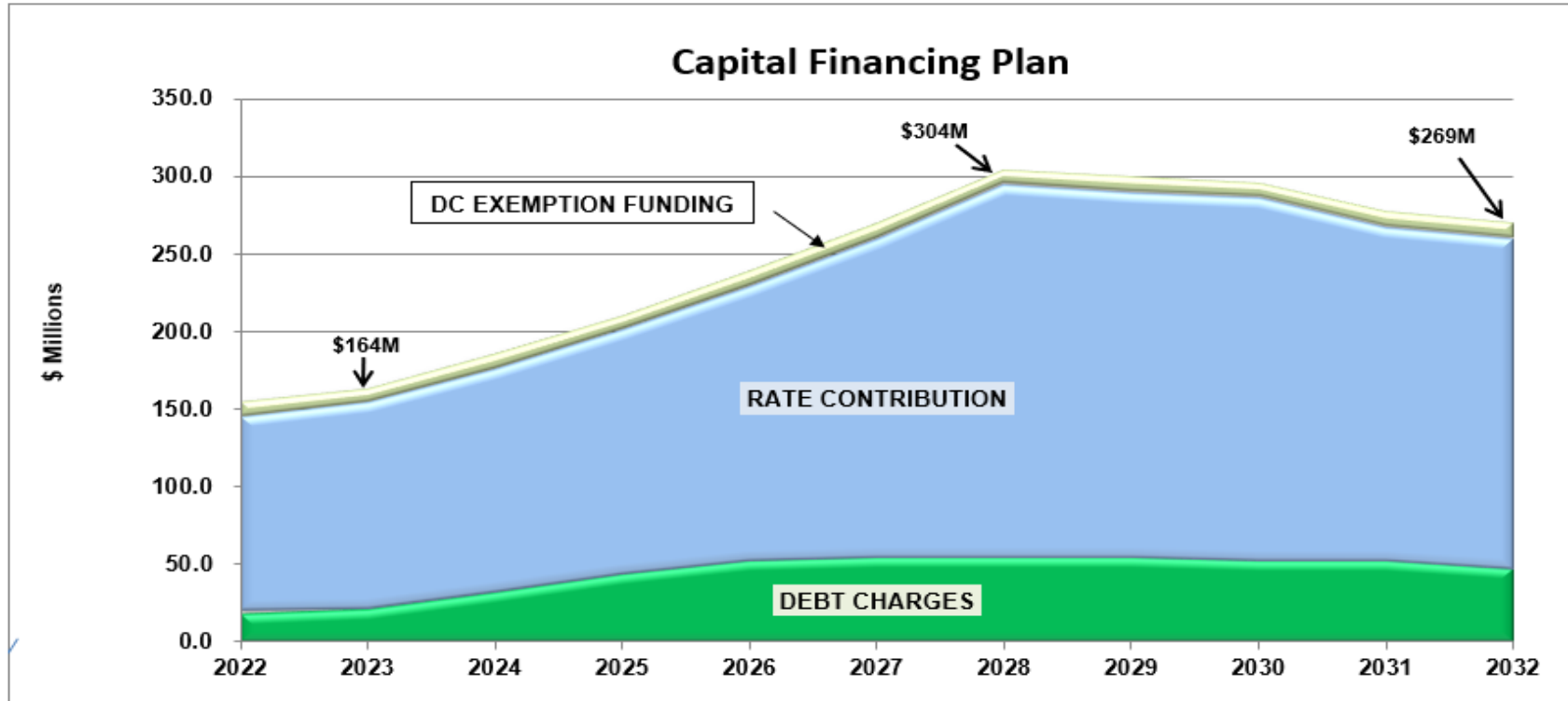
# 10 YEAR CAPITAL PROGRAM

## How much we plan to spend



# 10 YEAR CAPITAL STRATEGY

## How will we pay for it

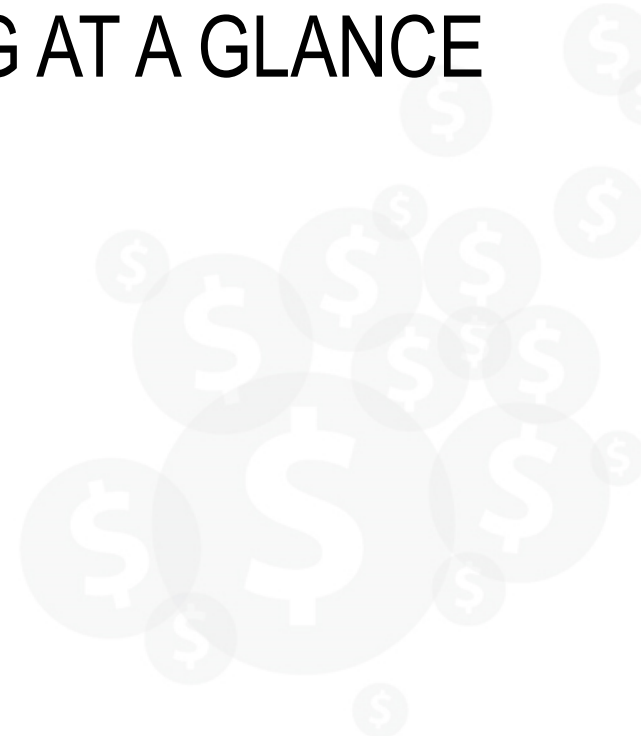


**Contribution to capital increasing from \$164M in 2023 to \$269M in 2032**

*Largely due to increase in capital construction*

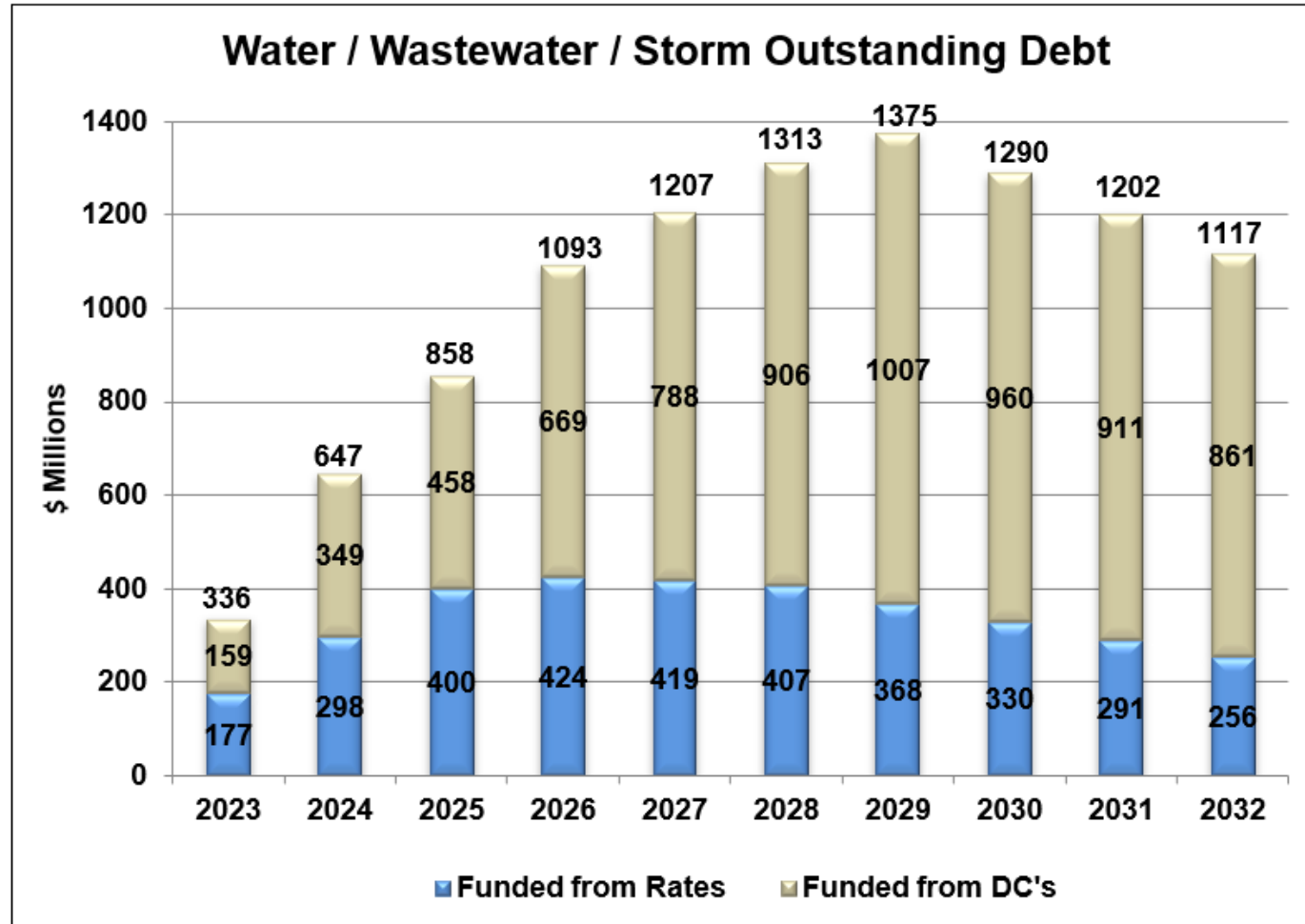


# DEBT FUNDING AT A GLANCE



# 10 YEAR CAPITAL STRATEGY

## What does our debt look like?

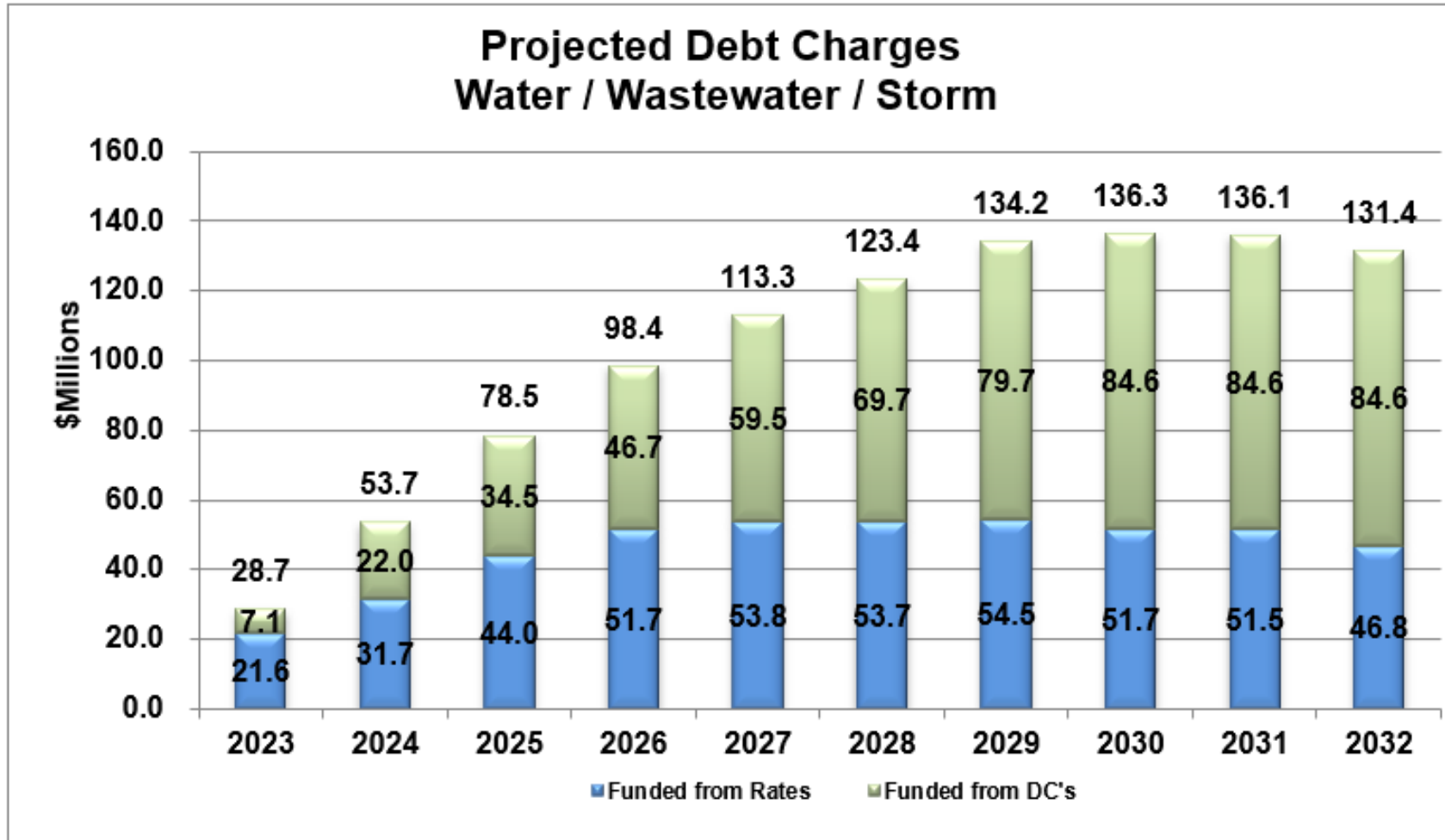




# 2023 Water, Wastewater and Stormwater Budget

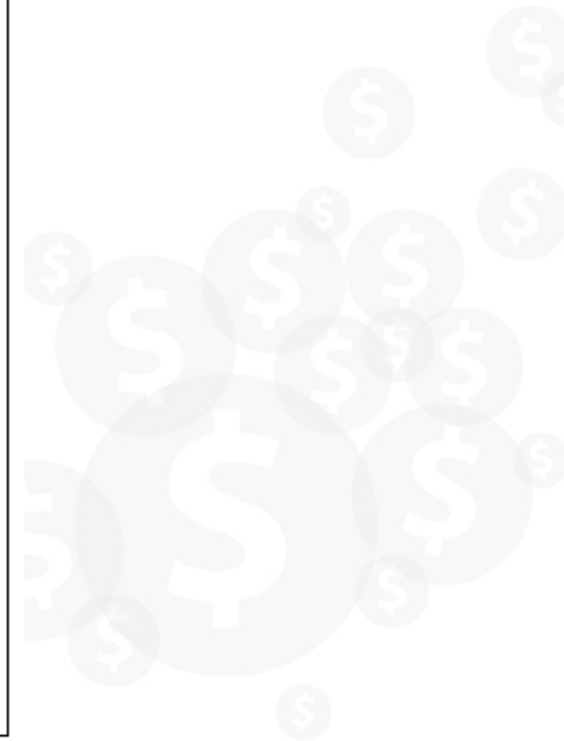
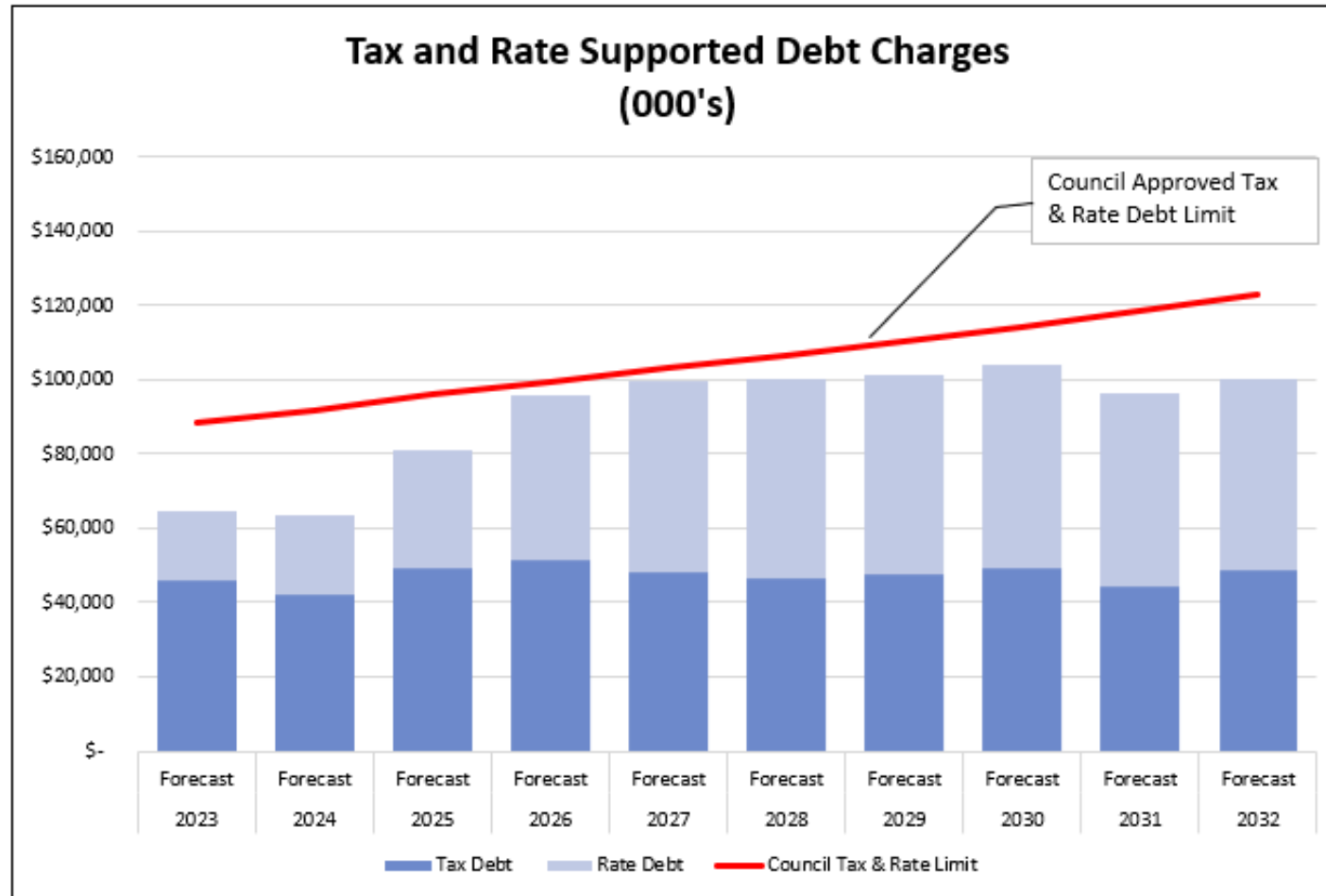
## 10 YEAR CAPITAL STRATEGY

### How much does our debt cost?



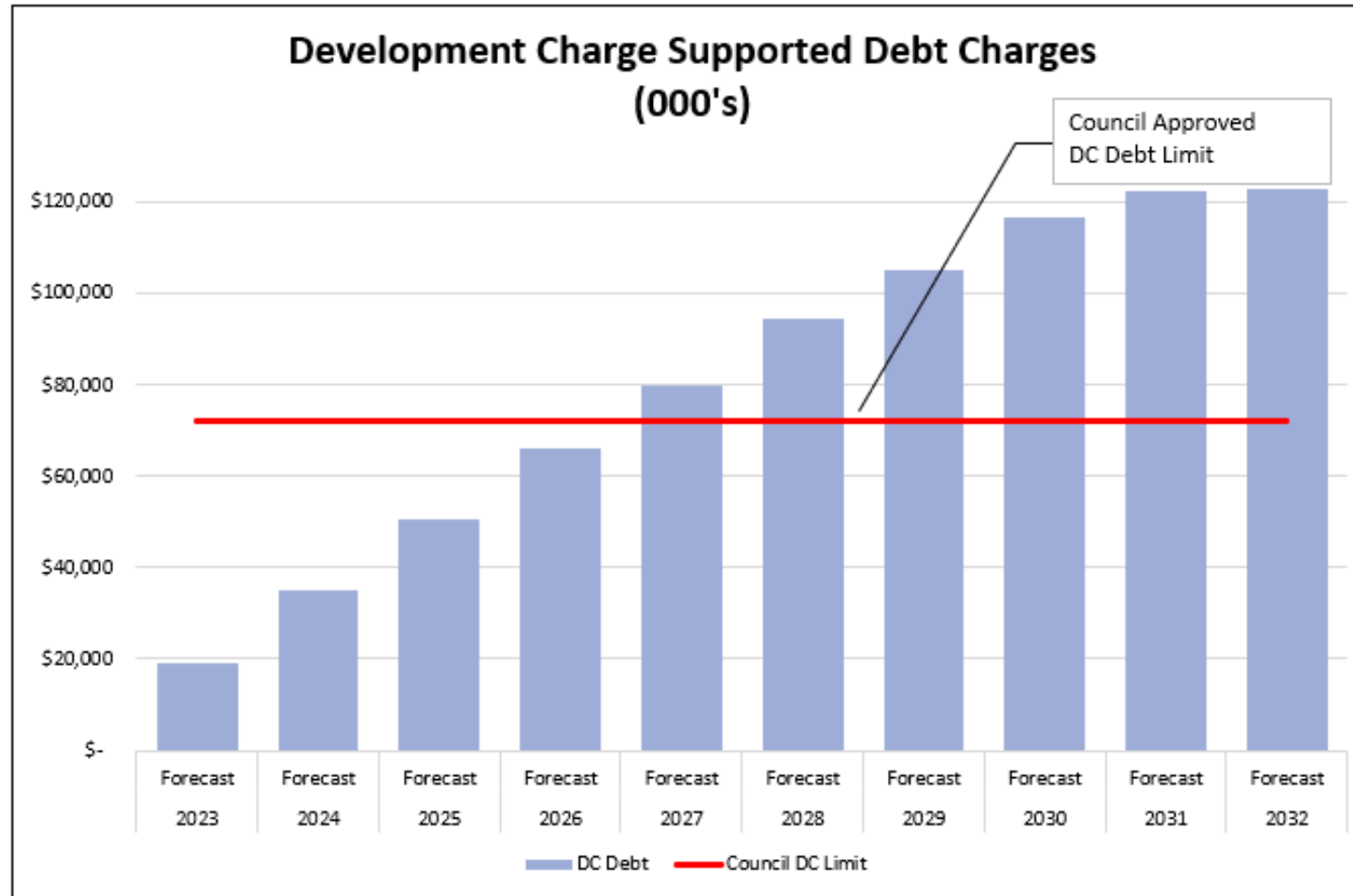
# 10 YEAR CAPITAL STRATEGY

## How much does our debt cost?



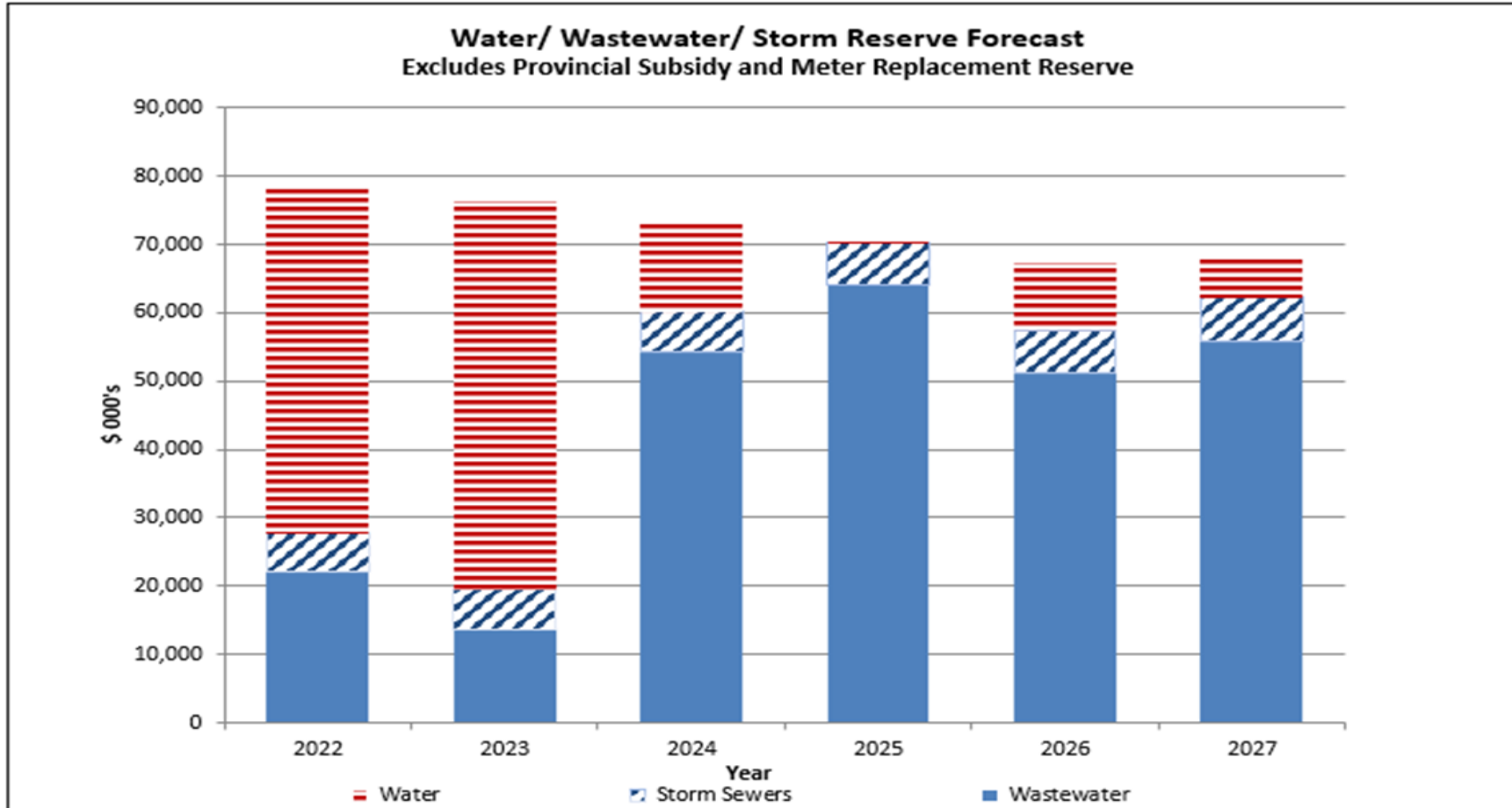
# 10 YEAR CAPITAL STRATEGY

## How much does our debt cost?



# 10 YEAR CAPITAL STRATEGY

## How much reserves will we use?



# PROPOSED NEXT STEPS

December 2, 2022	GIC Rate Budget Meeting (note 1)
December 7, 2022	Council Approval of 2023 Rate Budget

Note:  
1. If needed



# THANK YOU





# Hamilton Water 2023 Rate Supported Budget



# 2023 RATE BUDGET AGENDA

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2023 Rate Budget Overview

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Hamilton Water Division Overview

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2022 Highlights

---

2022 Return on Investment

---

2023 and Multi-Year Forecast

---

Challenges & Opportunities

---

Asset Management

---

2023 Operating Budget

---

2023 Capital Budget





# 2023 RATE BUDGET OVERVIEW





**Water Supply**  
**Water Distribution**  
**Water Support Services**  
**Infrastructure Management**



**Wastewater Treatment**  
**Wastewater Collection**  
**Wastewater Support Services**  
**Infrastructure Management**



**Stormwater Treatment**  
**Stormwater Collection**  
**Stormwater Support Services**  
**Infrastructure Management**

**HAMILTON WATER – SERVICES AND SUBSERVICES**

# 2023 RATE BUDGET OVERVIEW

Planned Rate Revenue (Average Residential) increase is currently set at **6.49%**

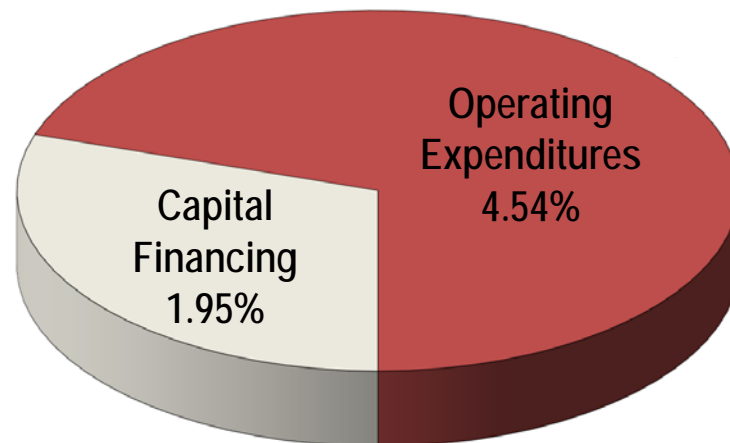
- Total net increase to 9-year capital program of **\$330M**
- Recommended 2023 operating budget of **\$108.5M** (10.3% increase from 2022 approved budget, 5.96% increase from 2022 projection)
- Recommended 2023 capital budget of **\$164M** (net, 4.8% increase from 2022)

## 2023 Projected Average Rate Impact

	\$	%
City Division (Hamilton Water)		
Operating Expenditures	\$37.39	4.54%
Capital Financing	\$16.06	1.95%

<b>Average Residential Impact</b>	<b>\$53.47</b>	<b>6.49%</b>
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Drivers of 6.49% Increase



# 2023 RATE BUDGET OVERVIEW

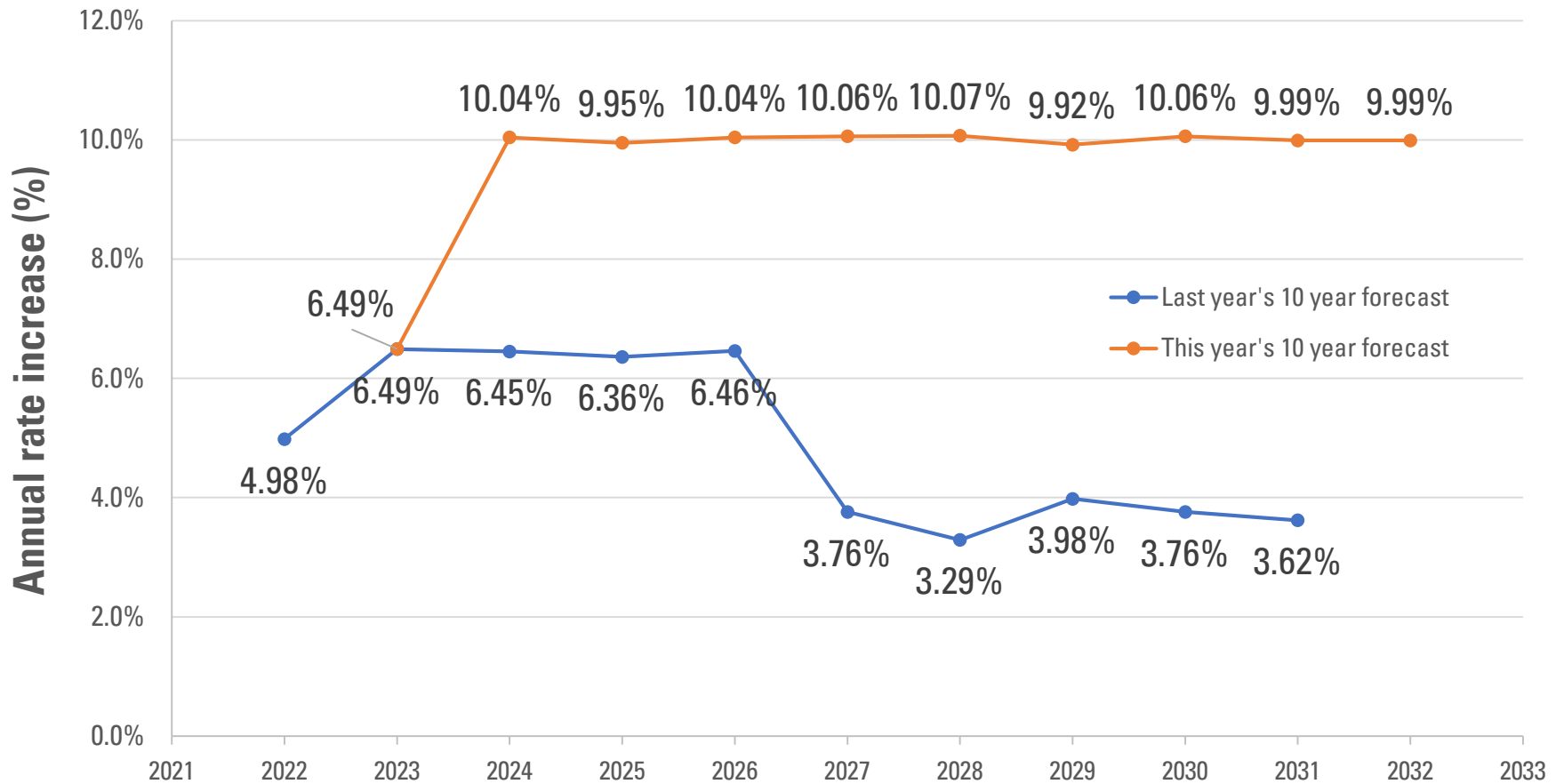
- Recommending a **6.49%** Rate Increase for 2023
- **8 new FTEs** in response to regulatory changes, capital impacts, and to maintain service levels
- **Operating pressures** - operating impacts from capital, regulatory changes, substantial increases in chemical and construction costs
- **Capital Program** – significant increases across 10 year projection
  - Inflationary & supply chain pressure
  - Regulatory changes
  - Updated scope & construction estimates
  - increasing investments based on poor asset condition, growth & development, environmental stewardship, and climate change resilience



Tertiary Treatment - Woodward WWTP

# 2023 RATE BUDGET OVERVIEW

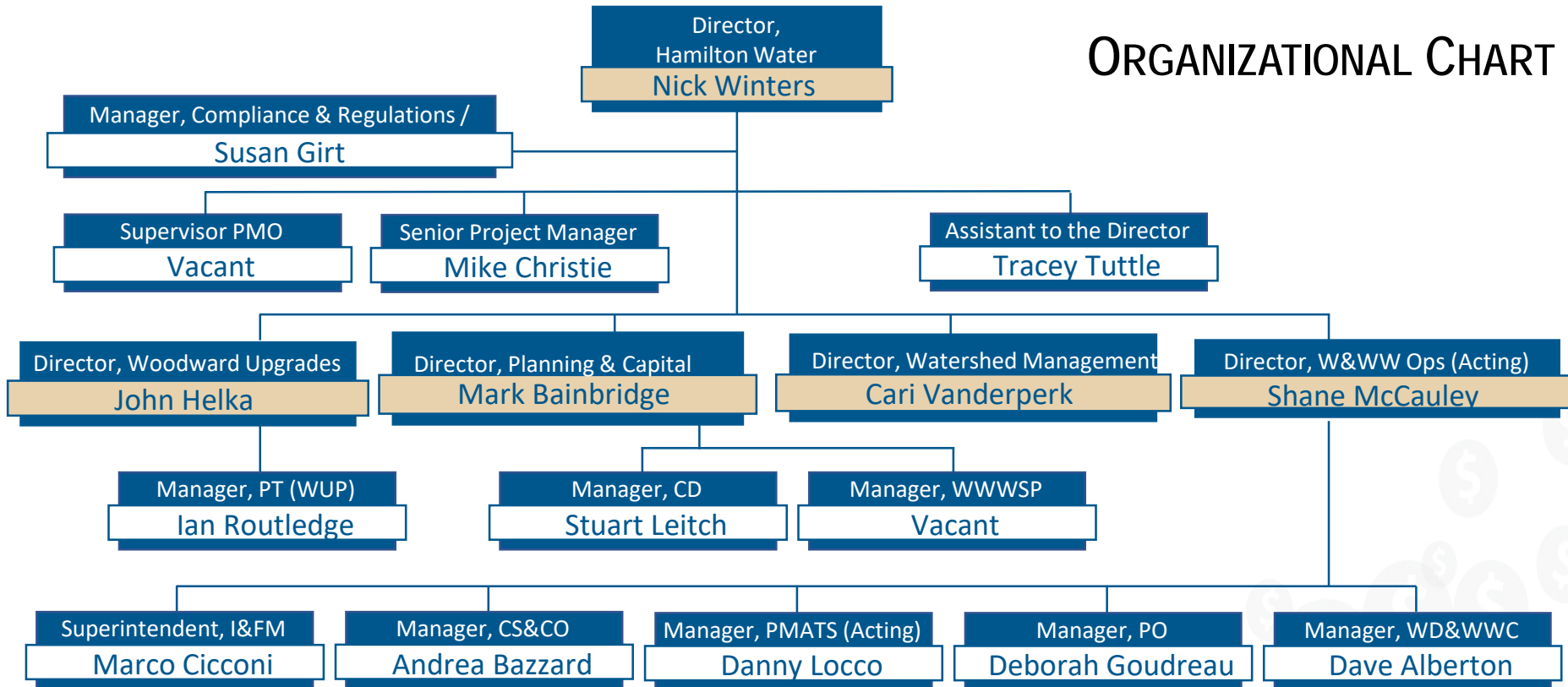
## Forecast of future rate increases (2022 approved vs. 2023 recommended)



# HAMILTON WATER DIVISION OVERVIEW



# ORGANIZATIONAL CHART



Permanent Complement (FTE)	Management	Other	Total	Staff to Mgt. Ratio
2022	12.00	335.65	347.65	27.97:1
2023 (Request)	13.00	342.65	355.65	26.36:1
Change	1.00	7.00	8.00	

# DRINKING WATER QUALITY MANAGEMENT SYSTEM POLICY



*The City of Hamilton owns, maintains and operates various drinking water systems. The City is committed to:*

- S** *Safe, high quality, consistent supply of drinking water*
- A** *Always improving the Drinking Water Quality Management System*
- F** *Following and complying with applicable legislation*
- E** *Effective and open communication with the community concerning matters of drinking water quality*



# WASTEWATER QUALITY MANAGEMENT SYSTEM POLICY



*The City of Hamilton owns, maintains and operates various wastewater systems. The City is committed to:*

- C** *Compliance with all legal and other requirements*
- L** *Leaders in pollution prevention*
- E** *Effective Communication with the community*
- A** *Always improving the Wastewater Quality Management System*
- N** *Noteworthy innovation*



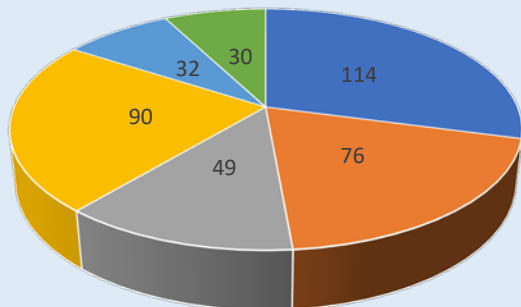


# HAMILTON WATER SCORECARD



- 29 Senior PMs/Superintendents & 1 Senior Regulatory Coordinator
- 8 Manager Scorecards
- 391 Active KPIs/Metrics
- 2022 Finalized Metric Identification for General Manager/Director's Scorecard
- 19% of Metrics Related to Wastewater/Stormwater
- 29% of Metrics Related to water

HW 2022 KPIs/Metrics



- Water (29%)
- Wastewater/Stormwater (19%)
- Work Order/Project Tracking (13%)
- Admin/Other (23%)
- Financial (8%)
- Safety (8%)

# 2022 HIGHLIGHTS



# 2022 WATER METRICS



**4**  
WELL SYSTEMS  
CARLISLE  
FREELTON  
GREENSVILLE  
LYNDEN

**2,129**  
KILOMETRES OF WATERMAINS



SUPPORT  
**7**  
AGENCIES WITH RESEARCH

**240**  
WATERMAIN  
BREAKS  
REPAIRED



**6** ACTIVE CONSTRUCTION PROJECTS INCLUDING  
**3** SUBSTANTIALLY COMPLETED PROJECTS



DAY-TO- DAY OPERATIONS AND MAINTENANCE OF  
**13,891**  
FIRE HYDRANTS



**13**  
WATER RESEVOIRS



**750**  
SUBSTANDARD WATER SERVICE LINE REPLACEMENTS



**7**  
WATER TOWERS



**20,274**  
WATER TREATMENT PLANT SAMPLES TESTED

**30,765**  
WATER DISTRIBUTION SAMPLES TESTED

**158,800**  
TOTAL NUMBER OF WATER METERS (NOV.YTD)



**21** WATER PUMPING STATIONS



**75.92** BILLION LITRES OF WATER TREATED

**1** WATER TREATMENT PLANT

TOTAL WATER ASSETS - \$4.25 BILLION

# 2022 WASTEWATER METRICS

**9**  
COMBINED  
SEWER  
OVERFLOW  
TANKS

**10**  
BYPASS  
EVENTS  
(YTD)

ENVIRONMENTAL MONITORING AND ENFORCEMENT  
DISCHARGE PERMIT COST RECOVERY  
**\$10.2M**  
LABORATORY COST RECOVERY  
**\$163,082**

**48,536** TESTS ON  
WASTEWATER SAMPLES  
**22,672** TESTS ON  
ENVIRONMENTAL SAMPLES

**365**  
BACKWATER  
VALVES  
INSTALLED

**48,500**  
MAINTENANCE  
HOLES

**1** ACTIVE CONSTRUCTION  
PROJECTS INCLUDING  
**1** SUBSTANTIALLY  
COMPLETED  
PROJECTS

**4,325**  
MEGA WATT HOURS OF  
ELECTRICITY  
PRODUCED

**1,268**  
KILOMETRES OF SANITARY SEWER  
573 KILOMETRES OF COMBINED SEWER

**48,800**  
TONNES  
OF BIOSOLIDS  
PROCESSED ON SITE

**2** WASTEWATER  
TREATMENT PLANTS  
**104,546**  
MEGA LITRES  
TREATED

**\$2,908,200**  
COST AVOIDANCE  
YTD GLOBAL ADJUSTMENT

**\$7.54M**  
ADDITIONAL  
SERVICES REVENUE  
**91**  
ACTIVE  
PERMITS

**392**  
DEVELOPMENT  
APPLICATIONS

**70** WASTEWATER  
PUMPING STATIONS

**TOTAL WASTEWATER ASSETS - \$7.25 BILLION**

59

WET PONDS



61

DRY PONDS



145

KILOMETRES OF WATERCOURSES



2 STORMWATER PUMPING STATIONS

7

WETLANDS



57



KILOMETRES OF MUNICIPAL DRAINS



STORMWATER STORAGE CAPACITY

630

METRES OF SHORELINE ASSETS AT



29 LOCATIONS



949

RAIN BARRELS SOLD ONLINE

382

EMERGENCY SPILLS ACTIVATIONS (OCT.YTD)



87



OIL & GRIT SEPARATORS



KILOMETRES OF STORM SEWERS

TOTAL STORMWATER ASSETS - \$3.14 BILLION

## DUNDAS WWTP



**4,196ML**  
wastewater  
treatment  
forecast



continuous  
compliance with  
wastewater  
effluent limits

## WOODWARD WTP



**75,922ML**  
water treatment  
forecast



**7 AWQI**

Adverse Water Quality Issue  
(YTD)



**\$2.22M**  
cost avoidance  
global adjustment  
forecast

## WOODWARD WWTP



**100,350ML**  
wastewater  
treatment forecast



**65.9%**  
capacity utilization  
(5yr Average)

**48,800 TONNES**  
biosolids processed on site  
forecast



**4,325**  
mega watt hours  
generated by Cogen unit



continuous  
compliance with  
wastewater  
effluent limits



**42,195**  
gigajoules  
generated by Bio-gas  
Purification Unit



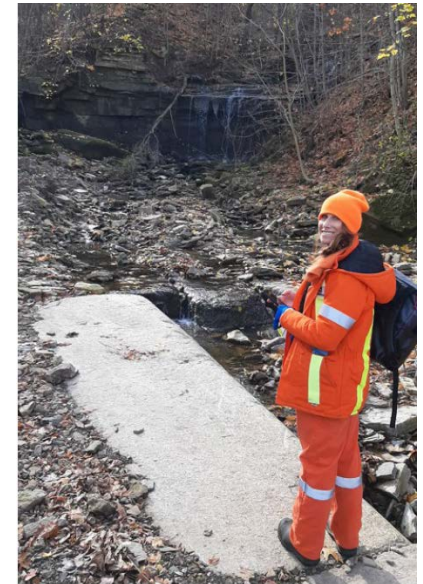
**10**  
Plant bypasses (YTD)



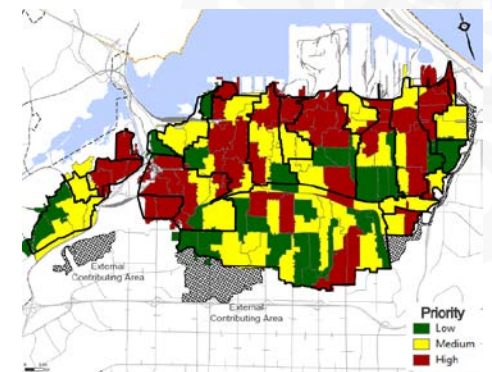
**12**  
odour  
complaints  
(YTD)

## Program Specific

- Surface Water Quality Program
- City of Hamilton Watershed Action Plan
- Chedoke Creek Workplan (targeted dredging project)
- Flooding & Drainage Improvement Framework (FDIF)
- Enhanced City of Hamilton Outstation (ECHO) Team
  - On target to complete 75 inspections by Q4 2022



Surface Water Quality Program



FDIF Priority Areas

## Program Specific



### Watermain Lining Program

- 87.5km of Watermain CIPP to date = 3.75% of network
- Watermain CIPP Target: 4-6km/yr. ~ 0.28% of network
- Critical Watermain Inspection Target: 4-6km/yr. ~ 2.5% of critical network

### Mainline Sewer Lining Program

- 417km of Mainline Sewer CIPP to date = 13% of network
- Mainline Sewer CIPP Target: 13km/yr. ~ 0.42% of network
- Mainline Sewer Inspection Target: 100km/yr. ~ 3.2% of network

### Sewer Lateral Lining Program

- 8,740 Sewer Laterals CIPP lined to date = 5.4% of network
- Sewer Lateral CIPP Target: 600/yr. ~ 0.37% of Network
- Sewer Lateral Inspection Target: 1,000/yr. ~ 0.6% of network



## Community Engagement & Participation

- Fats, Oils and Grease (FOG) Campaign
- Virtual World Toilet Day (2021) – 770 students
  - \$7295 raised for Water For People Canada
- Virtual Children’s Water Festival (2022) – 3024 students
- Top Water Users Survey
- Ward 1 Chedoke virtual meeting (May 2022)
- Participated in Indigenous Relations Committee Meetings for the Chedoke Dredging project
- Sewer Use Bylaw updates
- Active Construction Projects Notices (City webpage)



# 2022 Capital Program



**Stone Church & Garth Reservoir**  
Valve chamber and valve house upgrades - \$5.8M



**First Street Wastewater Pumping Station**  
Capacity Upgrades – \$4.4M

**Kenilworth Reservoir**  
East Cell Upgrades and Soil Removal – \$8.5M

## 2022 Capital Program



**Dundas Wastewater Treatment Plant**  
Tertiary Treatment Upgrades – \$928K



**Old Dundas Road Sewage Pumping Station**  
Infrastructure Upgrades - \$4.4M

## 2022 Capital Program



### Woodward WWTP – Digester 3

- North Digester Complex originally constructed in 1967, with significant upgrades in 1981 and 2000
- Catastrophic failure occurred May 2022
- Design for refurbishment was already in progress, with construction slated for 2023
- Emergency repair budget– \$5M
- Estimated completion for emergency work - March 2023

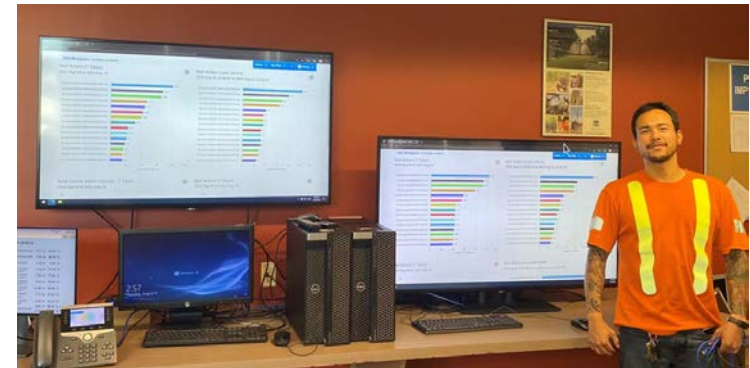
## 2022 Capital Program



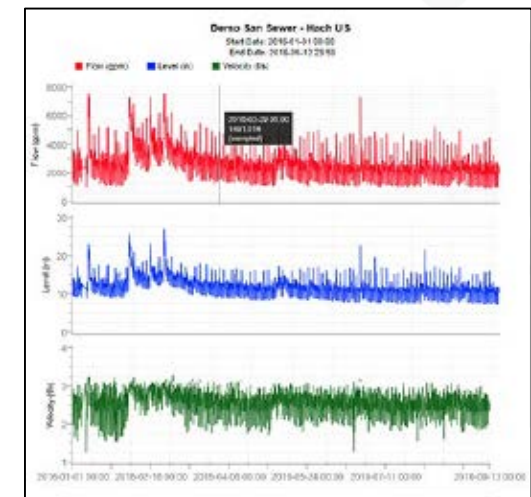
**Satellite City Sanitary Trunk Sewer Lining**  
Budget – \$8.8M, complete spring 2023

## Continuous Improvement

- **SCADA System Alarm Reduction**
  - Analysis into root cause of alarm and addressing root cause to eliminate nuisance alarms
- **3D Modeling – Building Information Modeling Standards for Capital Projects**
- **Flow and Rainfall Data Management and Analytics Platform**
  - New rainfall/streamflow analytics and interface for Water & Wastewater Systems Planning section



SCADA System Alarm Reduction



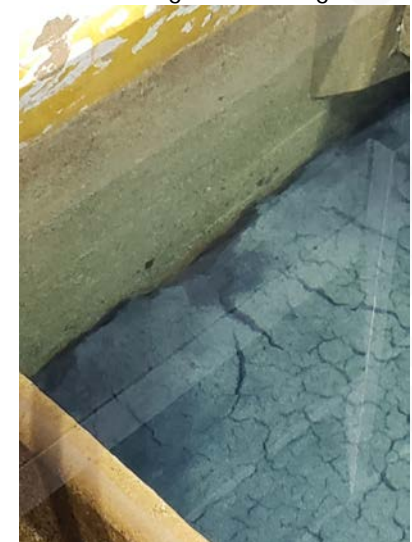
Streamflow data management interface

## Continuous Improvement

- **Drinking Water Filter Stress Testing**
  - Assessed filter performance at rated hydraulic capacity
- **Drinking Water Coagulant Study**
  - Batch and full-scale testing of alternate coagulants for production of drinking water
- **Excess Soils Management Program**
  - Audit and gap analysis of Water Distribution & Wastewater Collection contractor excess soil handling practices relative to the On-Site and Excess Soil Management Regulation



Coagulant Testing



Drinking Water Filter Media

# Our People & Performance





## COVID-19 Recovery

- Hamilton@Work and return to the office

Work Model	# of staff
Hybrid	167
Mobile/Frontline	72
Office	22

- Reopening of services - water counter
- Wastewater surveillance and partnerships
- “Watertight” staff newsletter



Watershed Management staff – Stelco Tower



Water storefront counter @ 330 Wentworth St



Hamilton  
**CLEAN HARBOUR**  
P R O G R A M

[www.hamilton.ca/cleanharbour](http://www.hamilton.ca/cleanharbour)

Website includes project histories, project videos, and additional helpful information

## Randle Reef

### Highlights

- Project Management Institute ranked Randle Reef work as the third most influential project in Canada
- No compliance issues reported for air or water
- Nov 2021 Canadian Brownfield Award

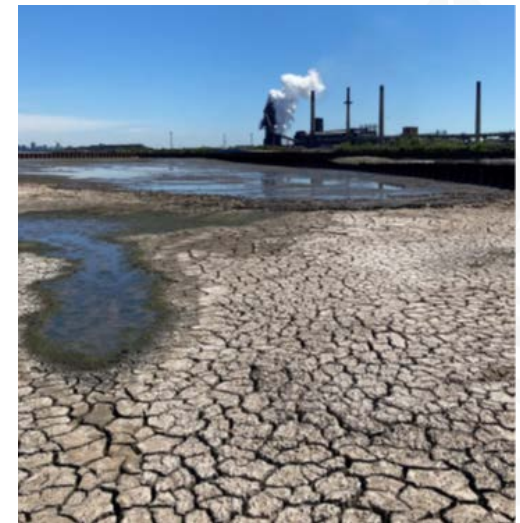
**Stage 1:** Double celled sheet pile wall containment facility (completed)

**Stage 2:** Managed a total of 615 000 m<sup>3</sup> contaminated sediment over 60 ha project area (completed)

**Stage 3:** Scope: Dewatering and capping of contaminated material, install surface cap, prep for use as port land (preliminary estimate of completion - Q4 2024)



May 2022 Randle Reef capping pilot zone



June 2022 Randle Reef dewatering



## Woodward Upgrades Project

### Contract 1 – Main Pumping Station



Contract Value: **\$87.6 Million**

Construction Began: **May 2017**

Substantial Completion: **August 31 2022**

Work Performed June 2022: **\$83.5 Million (97%)**

### Contract 2 – Electrical & Chlorination System Upgrades



Contract Value: **\$60.9 Million**

Construction Began: **October 2017**

Substantial Completion: **September 2022**

Work Performed to June 2022: **\$60.5 Million (98%)**

### Contract 3 – Tertiary Treatment Upgrades



Contract Value: **\$165.3 Million (Revised \$177.5M)**

Construction Began: **May 2019**

Substantial Completion: **December 2022**

Work Performed to June 2022: **\$165.2 Million (94%)**



## Woodward Upgrades Project

### CONTRACT 1 Main Pumping Station



### CONTRACT 2 Electrical Power Centre

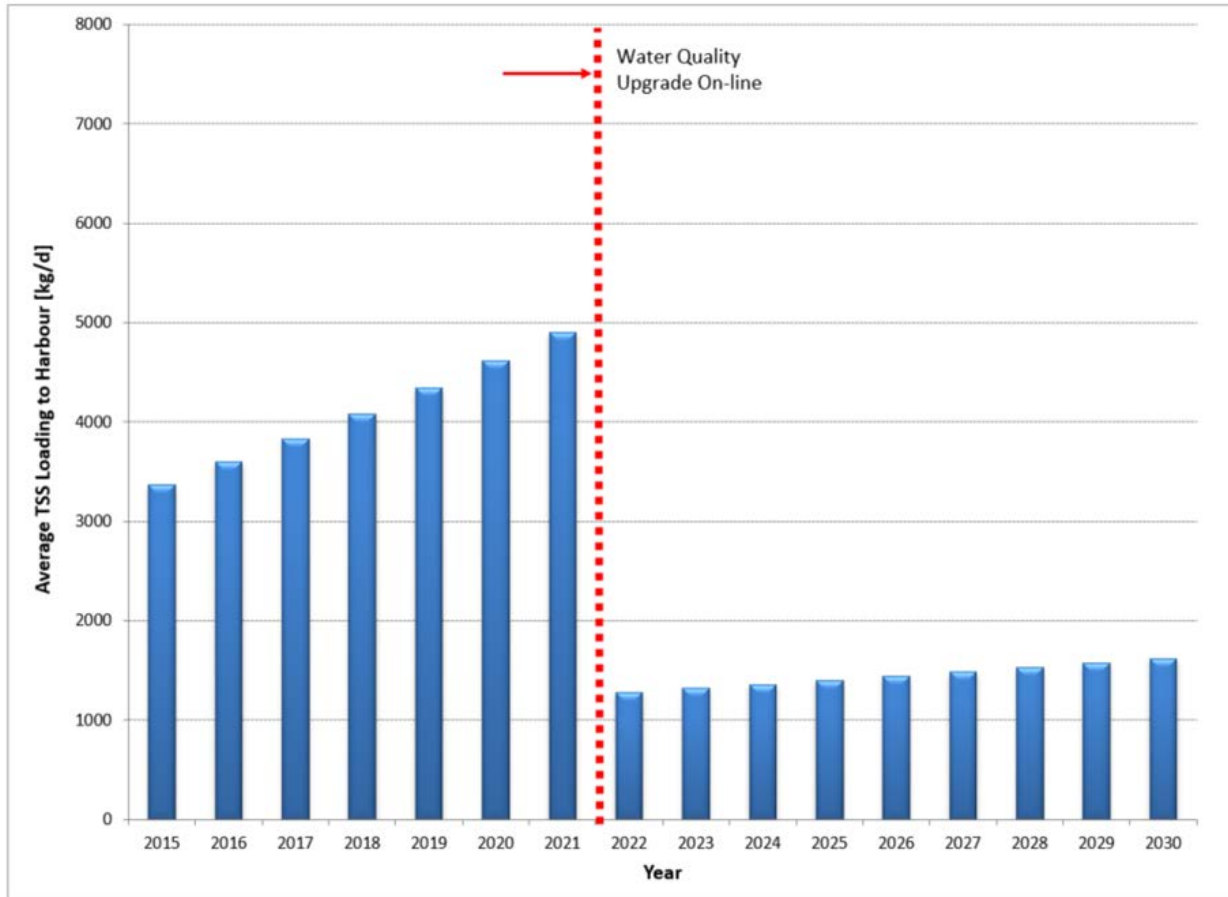


### CONTRACT 3 Tertiary Treatment Upgrades





## Woodward Upgrades Project



### Estimated reductions over 10 years:

- ✓ 500 tonnes of phosphorus
- ✓ 6100 tonnes of ammonia
- ✓ 14,900 tonnes of Total Suspended Solids

### Benefits:

- ✓ Improved effluent discharge quality
- ✓ Supports HHRAP to de-list Hamilton Harbour as an Area of Concern

# 2022 RETURN ON INVESTMENT



## Water Distribution & Wastewater Collection Section

### 2 full time Water Distribution Technologists

- Supports proactive leak detection program, C-factor testing program, and lead sampling program
- 1<sup>st</sup> year cost - \$250,000 (2 FTE + benefits) & 2 vehicles
- Savings from proactive leak detection - \$380,000
- Savings from in-house C-factor testing - \$100,000
- **Estimated total annual savings - \$230,000**



2022 OWWA Water Conservation Award being presented to the WD&WWC leak detection program team



## Compliance and Regulations Section

### 2 Environmental Enforcement Officers – construction dewatering program



Dewatering site

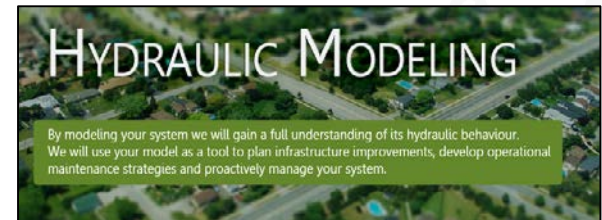
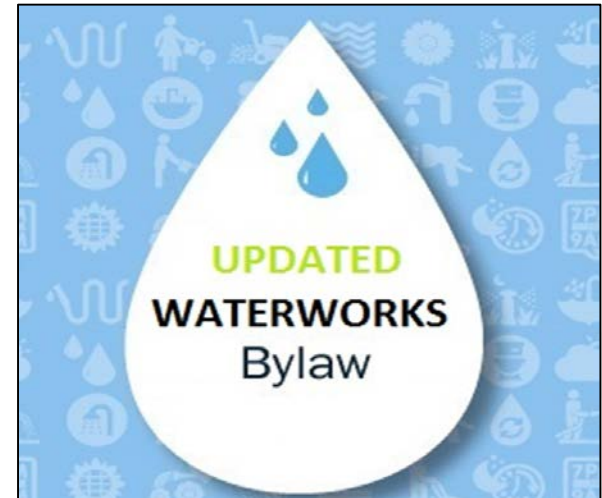
- 2021 – first officer hired, 8 permits processed, revenue \$130K
- 2022 – second officer hired and Sewer Use Bylaw amended
- **Projected Annual Revenue 2022 – \$200K**

# 2023 AND MULTI-YEAR FORECAST



# 2023 AND MULTI-YEAR FORECAST

- **Administration**
  - Updates to Sewer Use By-law, Waterworks By-law, Sewer & Drain By-law
- **Planning & Capital Sections**
  - Advancing our digital models for our local water, wastewater, stormwater, and groundwater systems
  - Model procedure development, integrating growth data, development of a capacity allocation tool for water distribution and wastewater collection systems
  - Asset Management Plan – O. Reg 588/17
- **Watershed Management Section**
  - Watershed Action Plan, Chedoke Creek workplan, Cootes Paradise workplan



## Operational Sections

- Stormwater Monitoring & Enforcement Programming
- Implementation of Vertical Infrastructure Maintenance Strategic Plan
- Municipal Drain Maintenance Strategy
- Advanced Metering Infrastructure Business Case Development
- Woodward WWTP Infrastructure Transfer
- Water Age and Water Disinfection Study
- Seasonal Drinking Water Coagulation Study
- Asset Inventory for Vertical Infrastructure
- Cyber Security Program
- Targeted Private Downspout Disconnection Program (MECP grant \$467K)



## Master Plans / Environmental Assessments

- Water, Wastewater, and Stormwater Master Plan – Review and Update
- Beach Boulevard EA
- Waterdown Trunk Watermain Twinning EA
- Ancaster Water Storage Facility EA
- Carlisle Water Storage Facility EA
- Greensville Municipal Backup Well EA
- York & Valley Road Water Pumping Station EA
- Main & Whitney Water Pumping Station EA
- New Septage Waste Haulage Receiving Station EA
- Ainslie Wood Sewer Separation EA
- Chedoke Watershed EAs
- Flooding & Drainage Improvement Framework EAs



Beach Boulevard Flood Remediation



Water, Wastewater, Stormwater Master Plan

## Capital Program

- Real Time Control collection system upgrades (Phase 2)
- Calvin Street wastewater pumping station upgrades
- Ferguson Avenue pumping station upgrades (Phase 3)
- Combined sewer outfall backflow preventors
- Water Plant low lift raw water intake structures and pipeline cleaning/rehabilitation
- Water Plant high light pumping station improvements (Phase 2)
- Dundas WWTP health & safety immediate needs & structural repairs



Low lift raw water intake



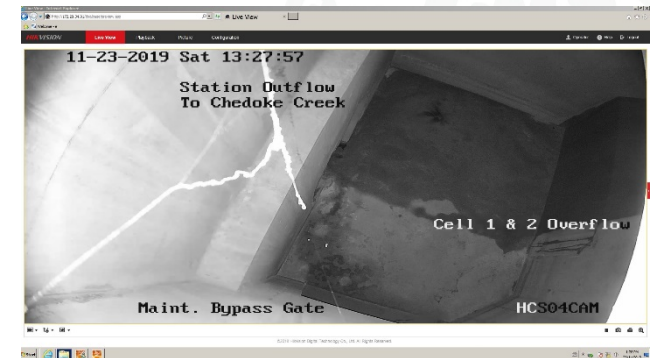
Dundas WWTP repairs

## Capital Program

- Osler Drive Pumping Station Health & Safety Upgrades
- Aeration Gallery Walkway/Safety Upgrades
- Scenic Reservoir expansion joint repairs
- **Regulator Renewal Program (MECP grant \$467K)**
  - 9 critical regulators to be renewed
- **Combined Sewer Overflow Rehabilitation Program (MECP grant \$886K)**
  - New monitors/cameras at critical locations
  - Addition of flow measurement at 16 new locations
  - Improvements to performance and reliability of CSOs
  - Additional locations to be added to the real-time reporting map



Dunn Ave – suspended trough regulator



Camera view at Main/King CSO

## Capital Program

### Dickenson Road Sanitary Trunk Sewer

#### Sanitary Trunk Sewer (10km):

- Dickenson Rd from Upper James St to Trinity Church Rd
- Trinity Church Rd from Dickenson Rd to Golf Club Rd
- Golf Club Rd from Trinity Church Rd to RR 56

#### Local Watermain (1.1km):

- Dickenson Rd between French Rd and Miles Rd



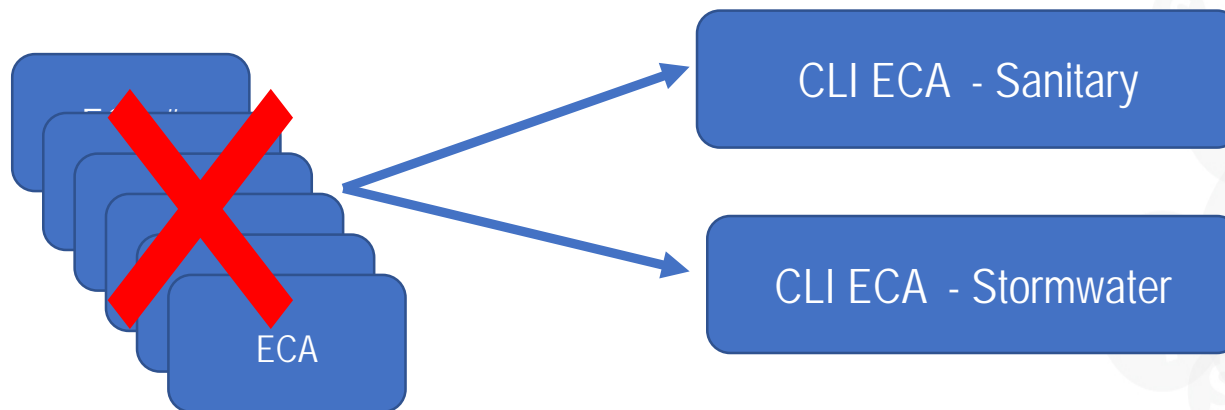
Project Budget - \$115M (DC Funded)  
Project Schedule – November 2026



# CHALLENGES AND OPPORTUNITIES



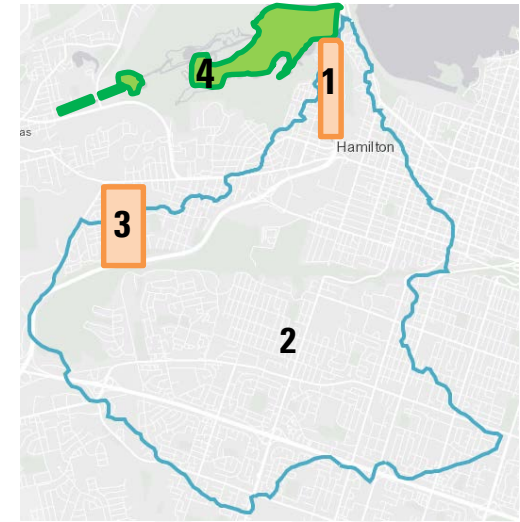
- **Consolidated Linear Infrastructure Environmental Compliance Approvals (CLI ECA)**
  - CLI ECA Scope: Sanitary collection (separated and combined, including pumping stations)
  - CLI ECA Stormwater: stormwater management systems
  - CLI ECAs expected by Q2 2023




# CHALLENGES AND OPPORTUNITIES

## Chedoke Order

- Chedoke Creek Workplan (dredging)
- Cootes Paradise Work Plan (offsetting)
  - Lower Chedoke Creek EA (1)
  - Chedoke Watershed Stormwater EA (2)
  - Ainslie Woods sewer separation EA (3)
  - Additional Sampling Plan for Cootes Paradise (4)
  - Stormwater & Roads policy reviews
- Financial
  - Chedoke design & permitting – \$2.8M
  - Chedoke targeted dredging – \$6.7M
  - Cootes offsetting – \$20M (estimate)




**Public Notice**



**CHEDOKE CREEK REMEDIATION**

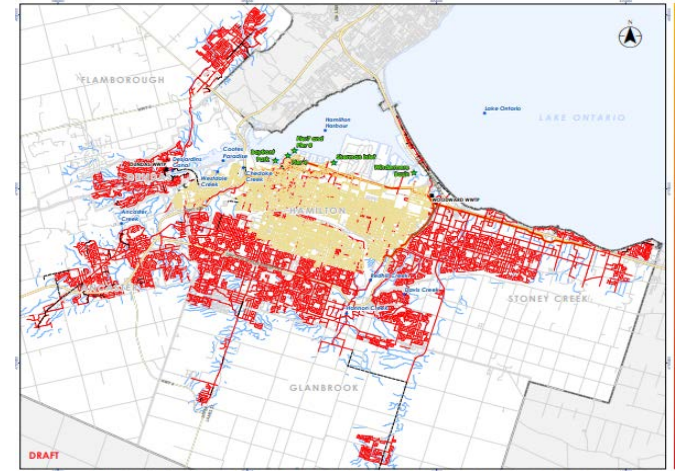
Beginning this summer, the City of Hamilton will start targeted dredging activities within Chedoke Creek to remove nutrient laden sediment from the creek bed. The targeted dredging will occur in two zones, North and South and is expected to be completed before the end of 2022. To follow along as the work progresses and learn about any potential impacts to the surrounding area please visit: [www.hamilton.ca/chedokecreekremediation](http://www.hamilton.ca/chedokecreekremediation)



# CHALLENGES AND OPPORTUNITIES

## Regulatory Challenges

- Pollution Prevention Control Plan and MECP Guideline F-5-5
- Capacity Allocation – Combined Sewer System
- Stormwater Source Control (Private Stormwater Infrastructure) Enforcement
- Excess Soil Management - O. Reg 406/19
- Consolidated Linear Environmental Compliance Approvals (CLI ECA)
- Tertiary Septic Systems and Rural Development

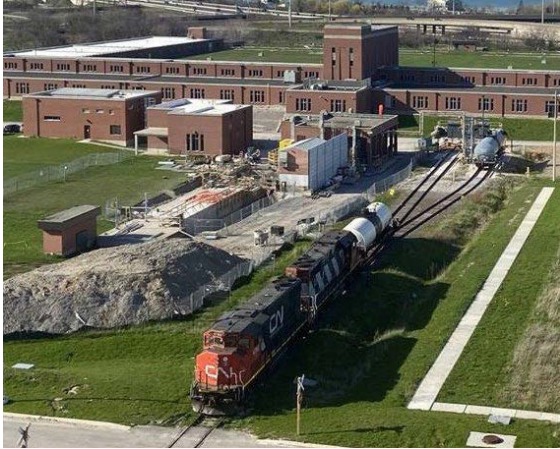


Separated sewershed (red), combined sewershed (beige)



Excess soils, Woodward WWTP

# CHALLENGES AND OPPORTUNITIES



Increasing chemical costs



Septage hauling station

- Water, Wastewater & Stormwater Master Plan
- Alectra billing contract – services end December 31, 2024
- Water Metering Program Audit
- Inflation, rising construction and commodity costs
- **Increase in Chemical Costs**
  - Sodium Hypochlorite (30%)
  - Coagulant (25%)
  - WAS Polymer (101%)
  - Liquid Chlorine (375%)
- Land procurement – new septage hauling station

# CHALLENGES AND OPPORTUNITIES



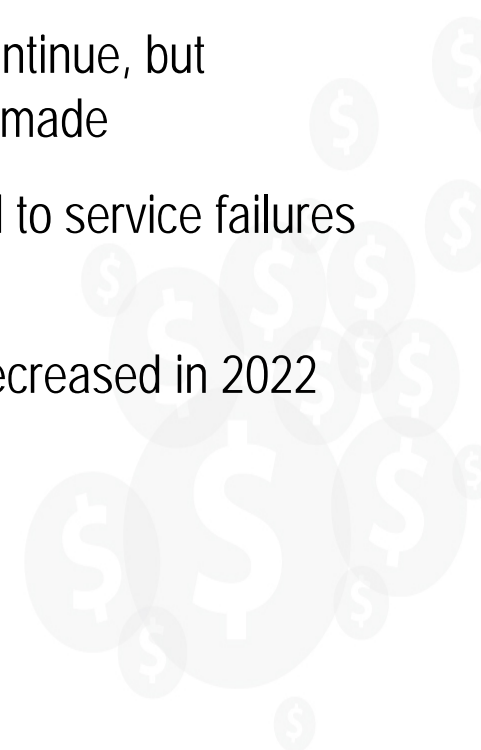
Biosolids building, Woodward WWTP



Finished pelletized biosolids product

## Biosolids contract challenges

- Operational challenges continue, but improvements have been made
- Financial penalties related to service failures still to be resolved
- Odour complaints have decreased in 2022



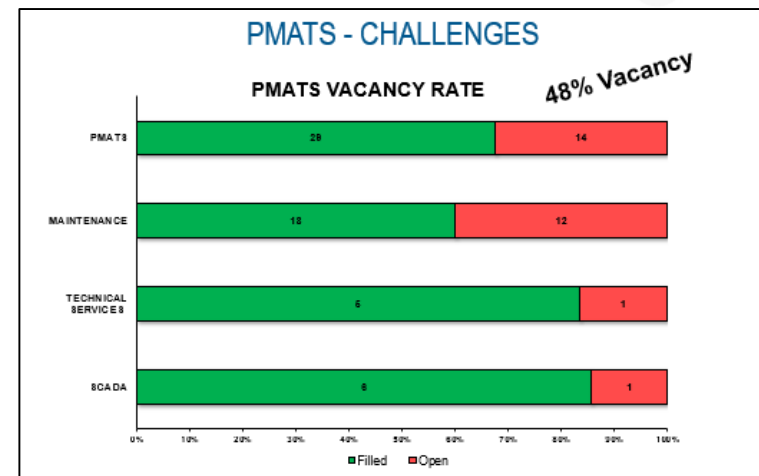
# CHALLENGES AND OPPORTUNITIES

## People and Performance

- Increased staff workload
- Vacancies/staff turnover in critical positions
- Recruitment/retention for skilled positions (Overall Responsible Operators, capital project managers, trades staff)
- High percentage of unplanned work
- **Development pressures**
  - Capital upgrade pressures, lack of SMEs
  - Bill 109 pressures
  - Increase in applications processed



2022 Vacancy Rate  
Customer Service & Community Outreach section



Vacancy rate up to 48% in Plant Maintenance & Technical Services

# CHALLENGES AND OPPORTUNITIES

- Utility locate turn around time/locate quality
- Encroachments on Hamilton Water assets
- Budget/scheduling variances in capital projects
  - Contaminated soils, equipment delivery delays, cost estimates vs. actuals, vendor performance
- Backlog of stormwater facilities requiring dredging
- Asset Management on watercourses, municipal drains and shoreline assets
- Permanent dewatering from buildings
- Light Rail Transit project



Locates



Stormwater management facility requiring dredging



# CHALLENGES AND OPPORTUNITIES

- **Aging Infrastructure & Increasing Capital Needs**
  - Water Treatment Plant process upgrades (\$348M)
  - Dundas WWTP upgrades (\$120M)
  - Woodward WWTP North Plant upgrades (\$96M)
  - Woodward WWTP digesters (\$33M)
  - Greenhill Pumping Station (\$53M)
  - Linear system (Wards 1,2,3,4,6,7,8)
  
- **Climate Change**
  - High intensity precipitation, elevated lake levels, frozen services, algal blooms, Dundas flooding



Location options for Greenhill pumping station



Neighbourhood flooding

# CHALLENGES AND OPPORTUNITIES

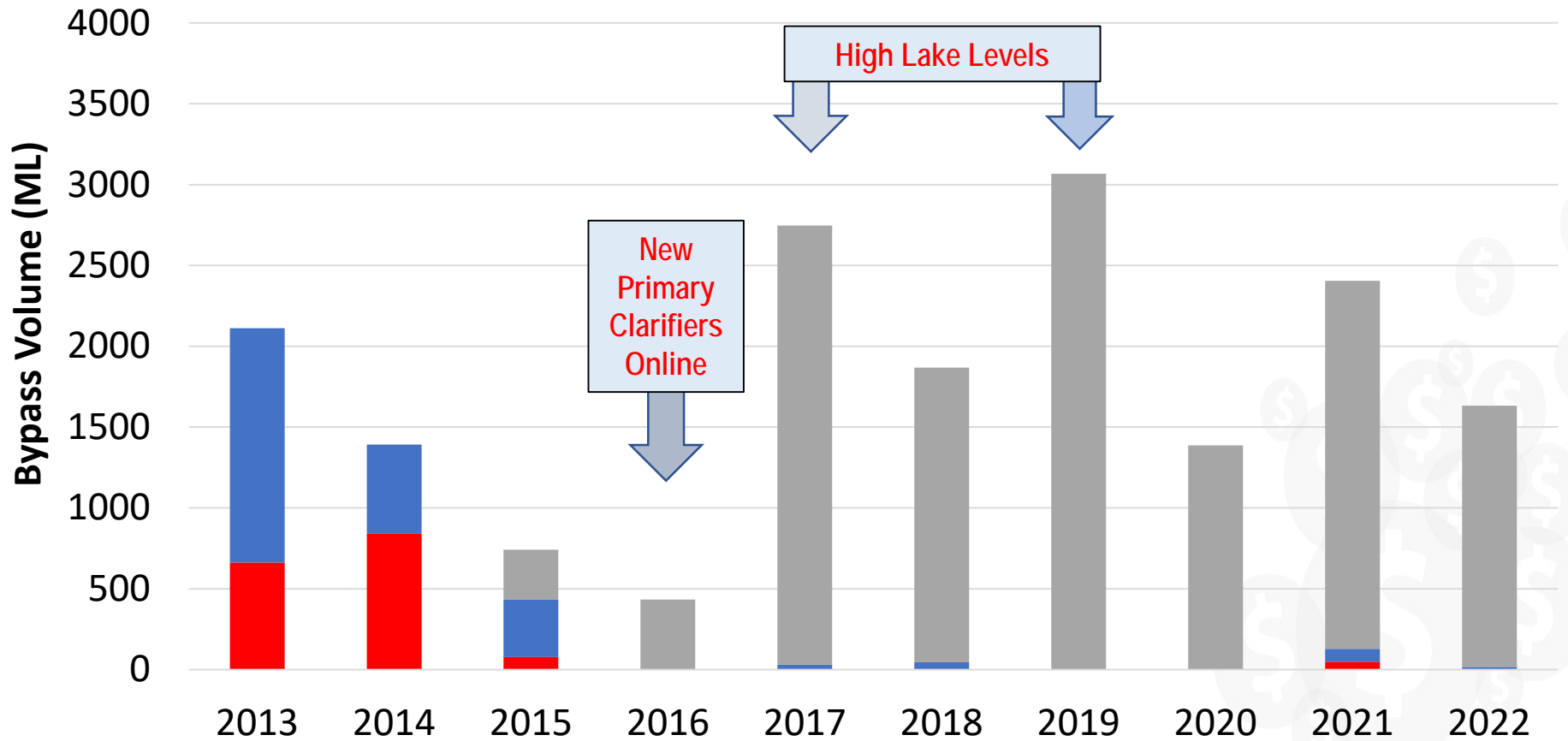
## Combined Sewer System – Overflows and Wastewater Treatment Plant Bypasses



# CHALLENGES AND OPPORTUNITIES

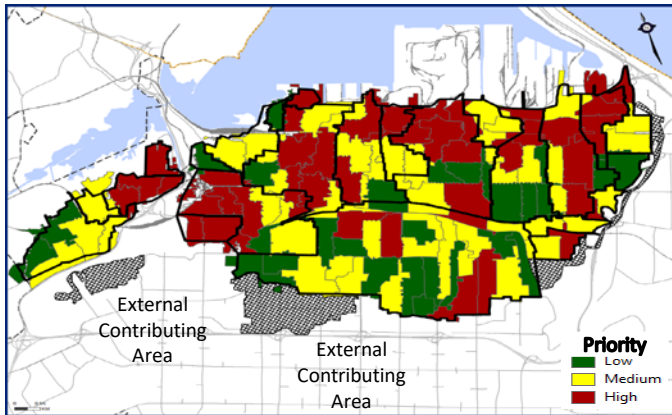
## Woodward WWTP Bypass Volumes

■ Plant Bypass   ■ Primary Bypass   ■ Secondary Bypass



# CHALLENGES AND OPPORTUNITIES

## Flooding & Drainage Improvement Framework



FDIF Priority Areas

Category	Timeline			Total (\$)
	0-10 Years	10-20 Years	20+ Years	
Studies	\$ 5M			\$ 5M
Priority Area Projects (Recommended)	\$ 214M	\$ 93M		\$ 307M
Potential Projects (Further Study)	\$ 96M	\$ 146M		\$ 242M
Managed Sewer Separation	\$ 52M	\$ 19M	\$ 404M	\$ 475M
<b>Total (\$)</b>	<b>\$ 367M</b>	<b>\$ 258M</b>	<b>\$ 404M</b>	<b>\$ 1,029M</b>

FDIF Budget Estimate and Timeline

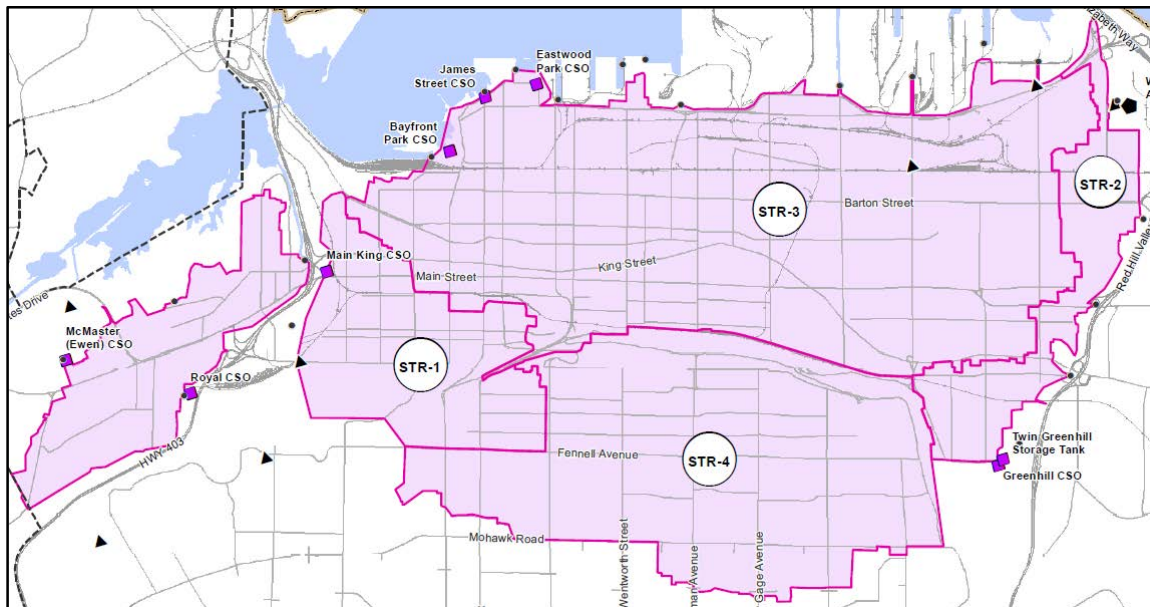
- Long term strategy referred to as “Managed Sewer Separation”
- 20+ year program, approximately \$1B to meet risk management objectives
- Enhanced by local solutions such as storage, low impact development, and new outlets

# CHALLENGES AND OPPORTUNITIES

## Flooding & Drainage Improvement Framework

### Next steps:

- West End Sewer Separation Study and New Outfall EA (Chedoke and Cootes Paradise) – STR-1
- Red Hill Sewer Separation Study and New Outfall EA – STR-2
- Hamilton Harbour Sewer Separation Study and New Outfall EA – STR - 3



# ASSET MANAGEMENT



# ASSET MANAGEMENT – WATER ASSETS

Critical Asset Summary				
Critical Assets	Quantity	Replacement Cost	Condition	Stewardship Measures
 Water Treatment Plant	1	\$1.0 billion	Poor	# of instances Chlorine is below/above target at the WTP 8
 Pump Station	18	\$125.3 million	Good	Inspection Frequency Weekly
 Wells & Well Stations	8 wells 6 stations	\$21.9 million	Fair Good	# Drinking Water Advisories 0
 Watermain	2,129 km	\$1.6 billion	Fair	Emergency breaks repaired within 2 days 100%

### Data Confidence



VERY HIGH

MEDIUM

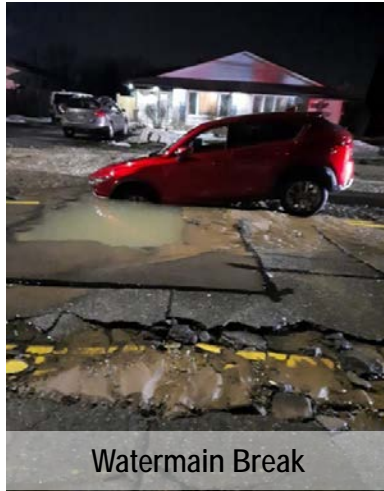
VERY LOW

Annual Infrastructure Gap for Water Assets - \$20 million

# ASSET MANAGEMENT – WATER ASSETS



Raw Water Intake



Watermain Break



Filter bed undrain debris



High Lift Pumping Station



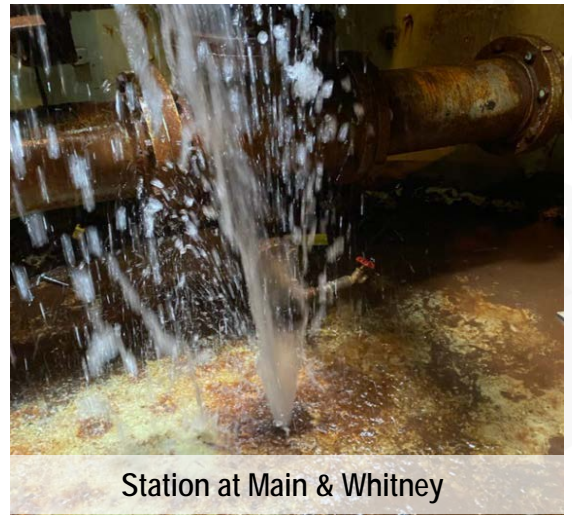
Watermain Break



Tuberculation



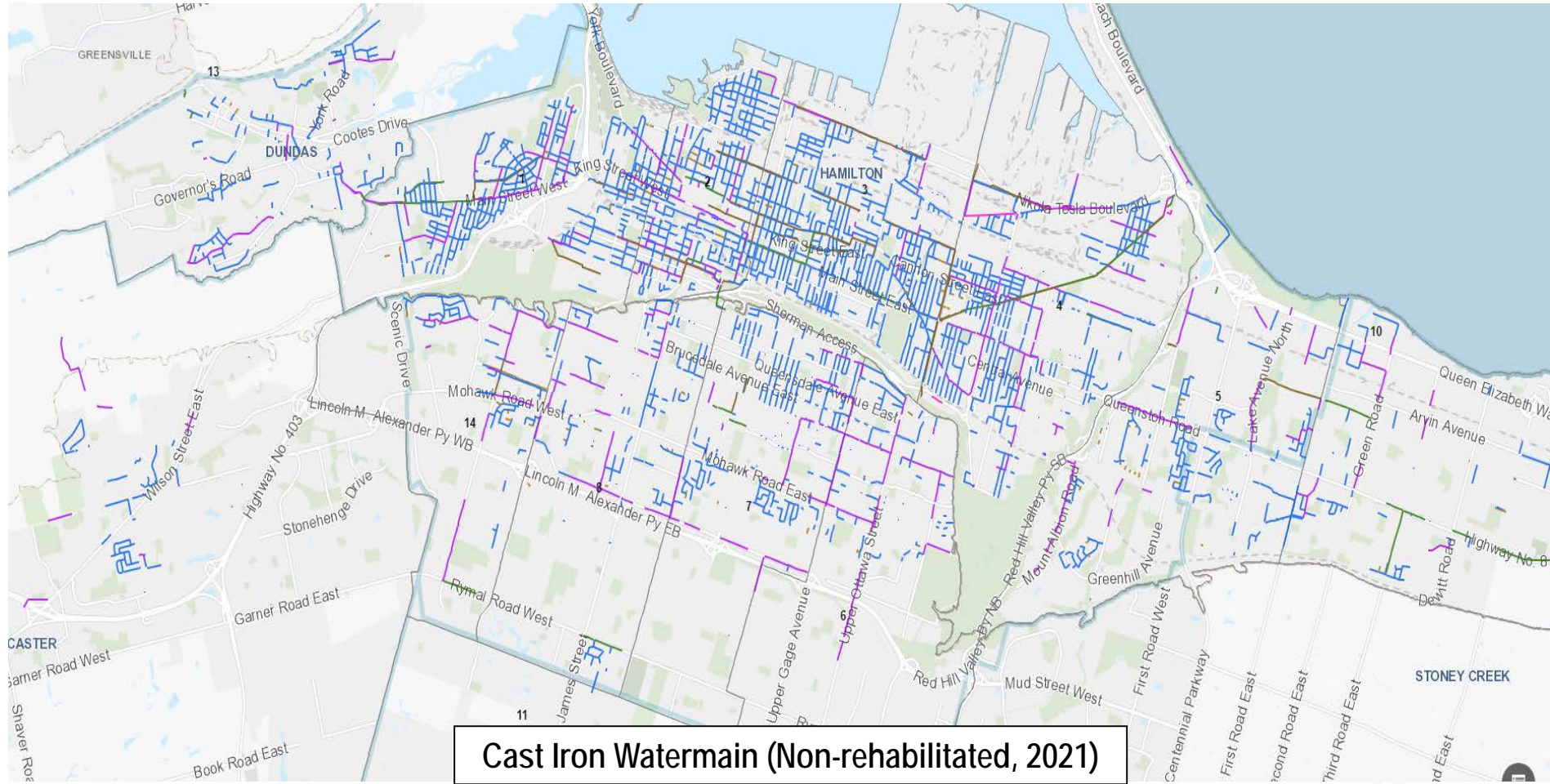
WTP watermains







Station at Main & Whitney



## Aging Water Infrastructure Across the City



# ASSET MANAGEMENT – WASTEWATER ASSETS

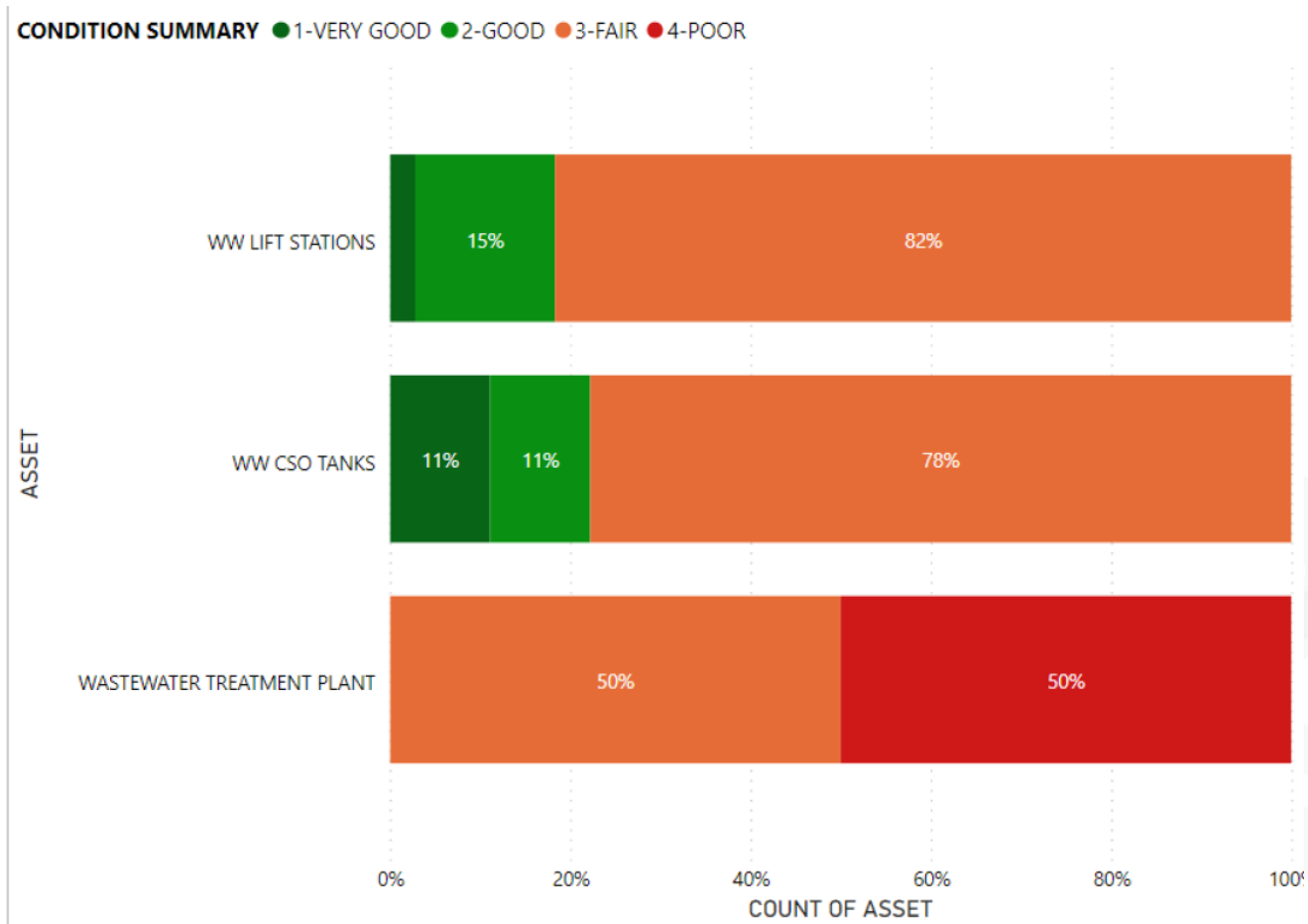
Critical Asset Summary				
Critical Assets	Quantity	Replacement Cost	Condition	Stewardship Measures
 Wastewater Treatment Plant	2	\$3.2 billion	Fair	# of bypasses at Woodward WWTP in 2021 23
 Pump Station	71	\$181.2 million	Fair	% completed monthly inspections in 2021 92.12%
 CSO Tanks	9	\$222.9 million	Fair	# of CSO tank overflow events in 2021 27
 Gravity Main	1,798 km	\$2.4 billion	Good	Length of sewermain lined in 2021 22.3 km



Annual Infrastructure Gap for Wastewater Assets - \$50 million

# ASSET MANAGEMENT – WASTEWATER ASSETS

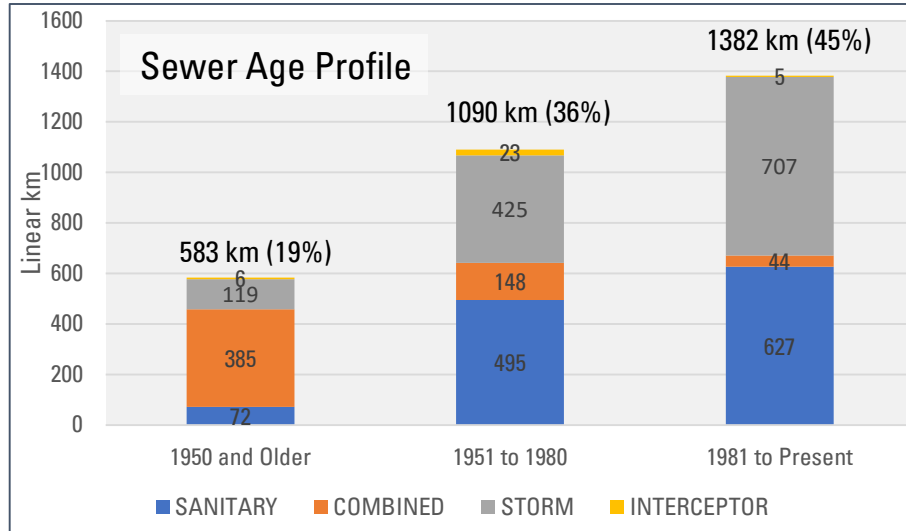
## Wastewater Vertical Assets Condition Distribution



# ASSET MANAGEMENT – WASTEWATER ASSETS



Woodward WWTP



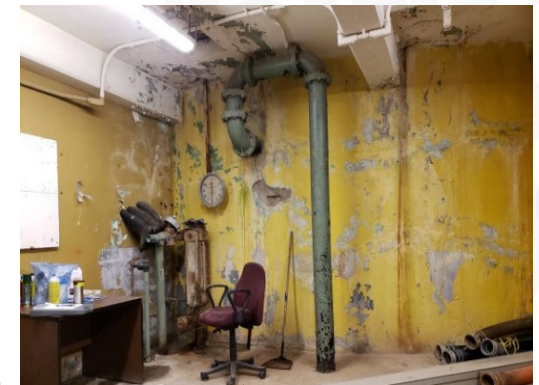
Sewer Maintenance Chamber



Sewer Regulator



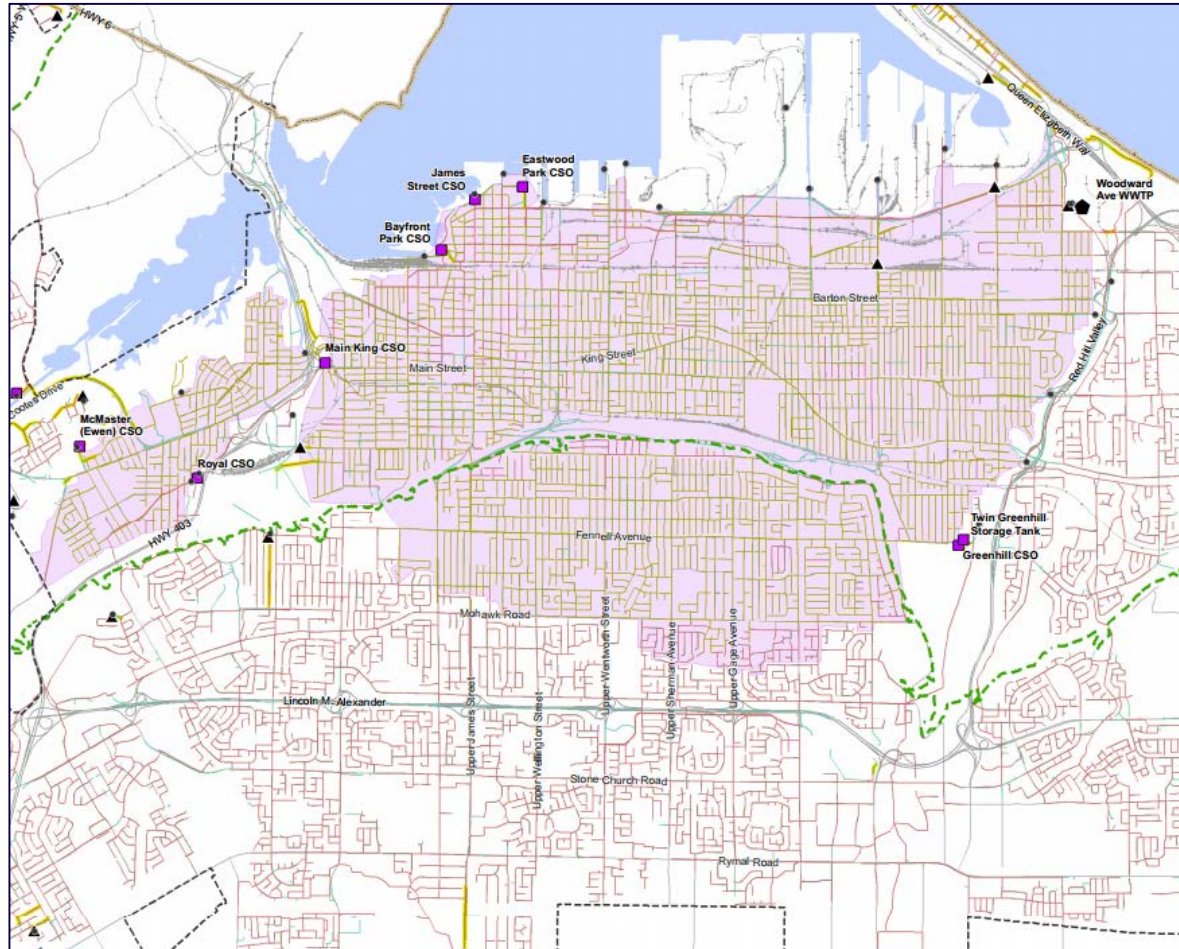
Dundas Ferric Tanks



Dundas Sludge Building

# ASSET MANAGEMENT – WASTEWATER ASSETS

## Combined Sewer System



# ASSET MANAGEMENT – STORMWATER ASSETS

Critical Asset Summary				
Critical Assets	Quantity	Replacement Cost	Condition	Stewardship Measures
 Stormwater Management ponds	119	\$179 million	Good	% of Ponds inspected in 2021 <b>100%</b>
 Pump Station	2	\$9.52 million	Very Good	Inspection Frequency <b>Monthly</b>
 Gravity Main	1,263 km	\$1.8 billion	Good	km's of Main Inspected in 2021 <b>78 km</b>

### Data Confidence

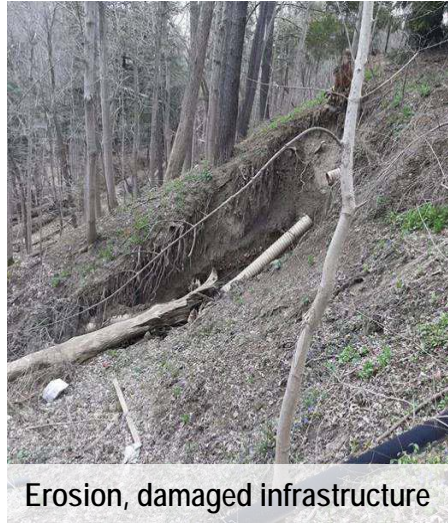


Annual Infrastructure Gap for Stormwater Assets - **\$31 million**

# ASSET MANAGEMENT – STORMWATER ASSETS



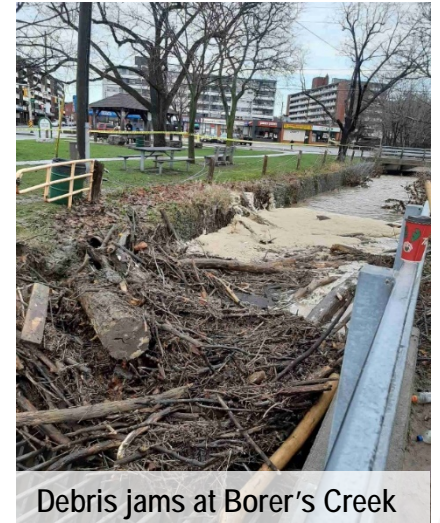
Species-at-risk relocation



Erosion, damaged infrastructure



Church Street Outfall



Debris jams at Borer's Creek



Phragmites



Damaged outfall



Encroachments

# ASSET MANAGEMENT – TREATMENT PLANTS

## Dundas WWTP Replacement

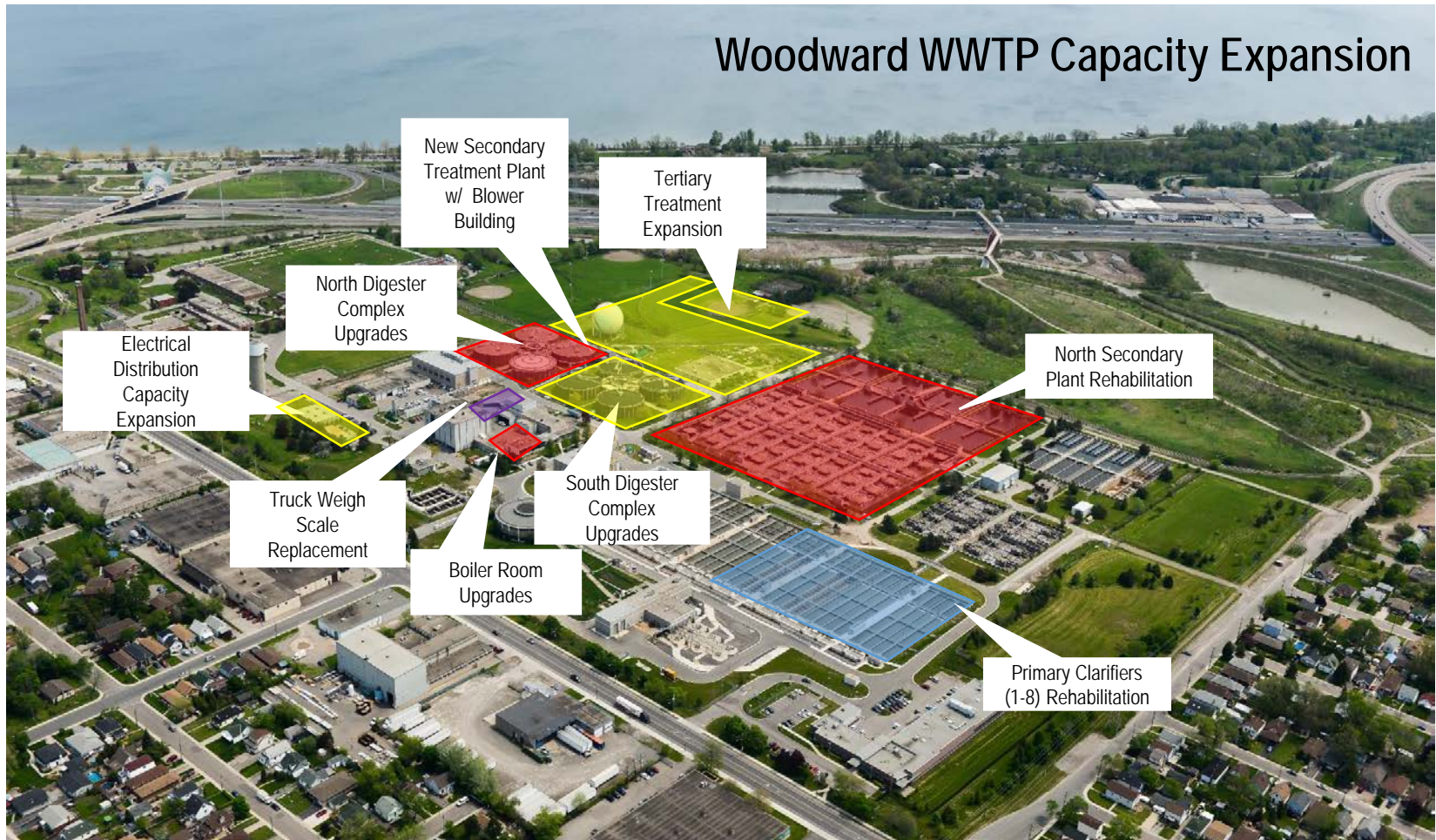
- 73 years old (exceeded design life of 60 years)
- Considered to be in poor condition
- Significant deterioration
- 2015 assessment estimated replacement value at \$50-60M; however, costs are closer to \$140M
- Design update for Dundas WWTP expected in 2023
- Crucial asset to help meet HHRAP targets





# ASSET MANAGEMENT – TREATMENT PLANTS

## Woodward WWTP Capacity Expansion



**Budget - \$456M (\$300M DC Funded)**

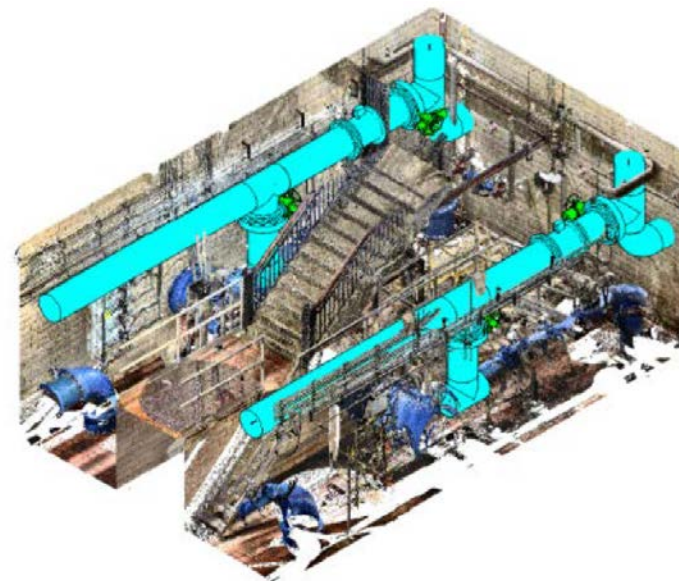
**Schedule - Design 2023 – 2025; Construction 2026 - 2031**

# ASSET MANAGEMENT – WOODWARD WTP PHASE 2 UPGRADES

## Project Components and Estimated Conceptual Budget

• Low Lift pumping upgrade	\$ 21.6 M
• Pre-treatment improvement	\$110.7 M
• Filtration upgrades	\$ 97.8 M
• Clearwell restoration	\$ 7.2 M
• New UV disinfection	\$ 64.7 M
• Chlorine Building replacement	\$ 20.1 M
• Yard works	\$ 28.8 M
• <b>WTP Phase 2 project total</b>	<b>\$ 350.9 M</b>

(Financing: Rate Budget 56% DC portion 44%)



Filter to Waste Building – 3D conceptual model

## Schedule Estimate

- Design and approvals – 2024 to 2027
- Construction - 2028 to 2033

## Next Steps

- 3<sup>rd</sup> Party Due Diligence Review – Q2 2023
- Project Update Council Report – Summer 2023
- Technology Pilot – Q4 2022 – Q4 2024
- Infrastructure Integrity review – Q3 2023



Woodward WTP Pre-treatment and Filter Building

# 2023 BUDGET



Planned Rate Revenue (Average Residential) increase is currently set at **6.49%**

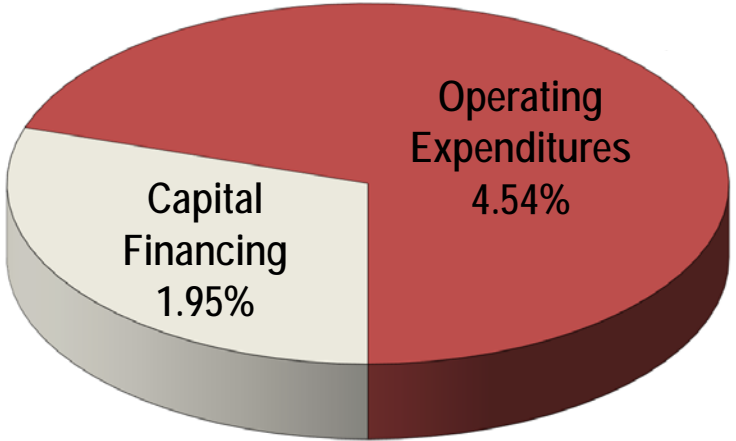
- Total net increase to 9-year capital program of **\$330M**
- Recommended 2023 operating budget of **\$108.5M** (10.3% increase from 2022 approved budget, 5.96% increase from 2022 projection)
- Recommended 2023 capital budget of **\$164M** (net, 4.8% increase from 2022)

**2023 Projected Average Rate Impact**

	\$	%
City Division (Hamilton Water)		
Operating Expenditures	\$37.39	4.54%
Capital Financing	\$16.06	1.95%

<b>Average Residential Impact</b>	<b>\$53.47</b>	<b>6.49%</b>
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Drivers of 6.49% Increase





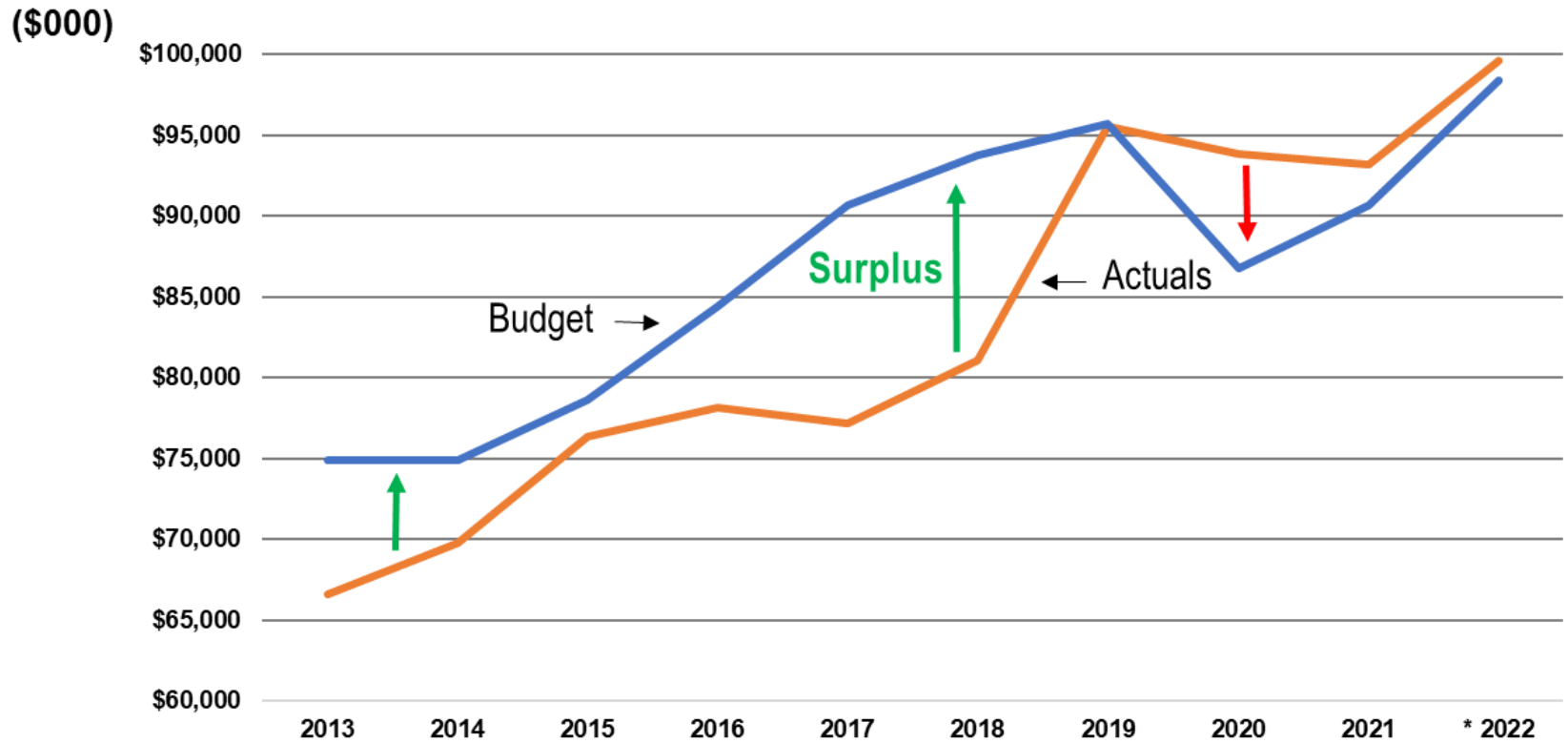
- Recommending a **6.49%** Rate Increase for 2023
- **8 new FTEs** in response to regulatory changes, capital impacts, and to maintain service levels
- **Operating pressures** - operating impacts from capital, regulatory changes, substantial increases in chemical and construction costs
- **Capital Program** – significant increases across 10 year projection
  - Inflationary & supply chain pressure
  - Regulatory changes
  - Updated scope & construction estimates
  - Increasing investments based on poor asset condition, growth & development, environmental stewardship, and climate change resilience

# 2023 OPERATING BUDGET



# RATE OPERATING BUDGET - VARIANCE HISTORY

(NET OF CAPITAL RECOVERIES)



Data has been pulled from the Variance Reports submitted to Council

( ) Denotes unfavourable variance  
 \* 2022 Actuals are forecasted

# 2023 OPERATING BUDGET PRESSURES



- Costs increased due to O. Reg 406/19 (Excess Soils Management)
- 2023 FTE request (regulatory changes + capital impacts + level of service)
- Operating impacts from capital (WUP commissioning)
- Consumable costs rising faster than inflation (e.g. Water & wastewater treatment chemicals, parts & equipment for repairs)



# 2023 OPERATING BUDGET

<b>2022 Council Approved Budget (net of Capital Recoveries)</b>		<b>\$98,411,127</b>	
<i>Non-discretionary Increases</i>			
Maintenance Budget Increases	\$8,309,965		8.4%
Operating Impacts from Capital	\$1,965,235		2.0%
		\$10,275,200	10.4%
<i>Discretionary Increases</i>			
New FTE Requests *	\$666,380		0.7%
Service Level / Budget Enhancements	\$451,650		0.5%
Other Budget Adjustments	(1,292,040)		-1.3%
		(174,010)	-0.2%
<b>Total Requested Budget Increase</b>		<b>\$10,101,190</b>	<b>10.3%</b>
<b>2023 Requested Operating Budget (net of Capital Recoveries)</b>		<b>\$108,512,317</b>	

Note:

\* New FTE Requests are net of Capital Recoveries and additional revenue streams.

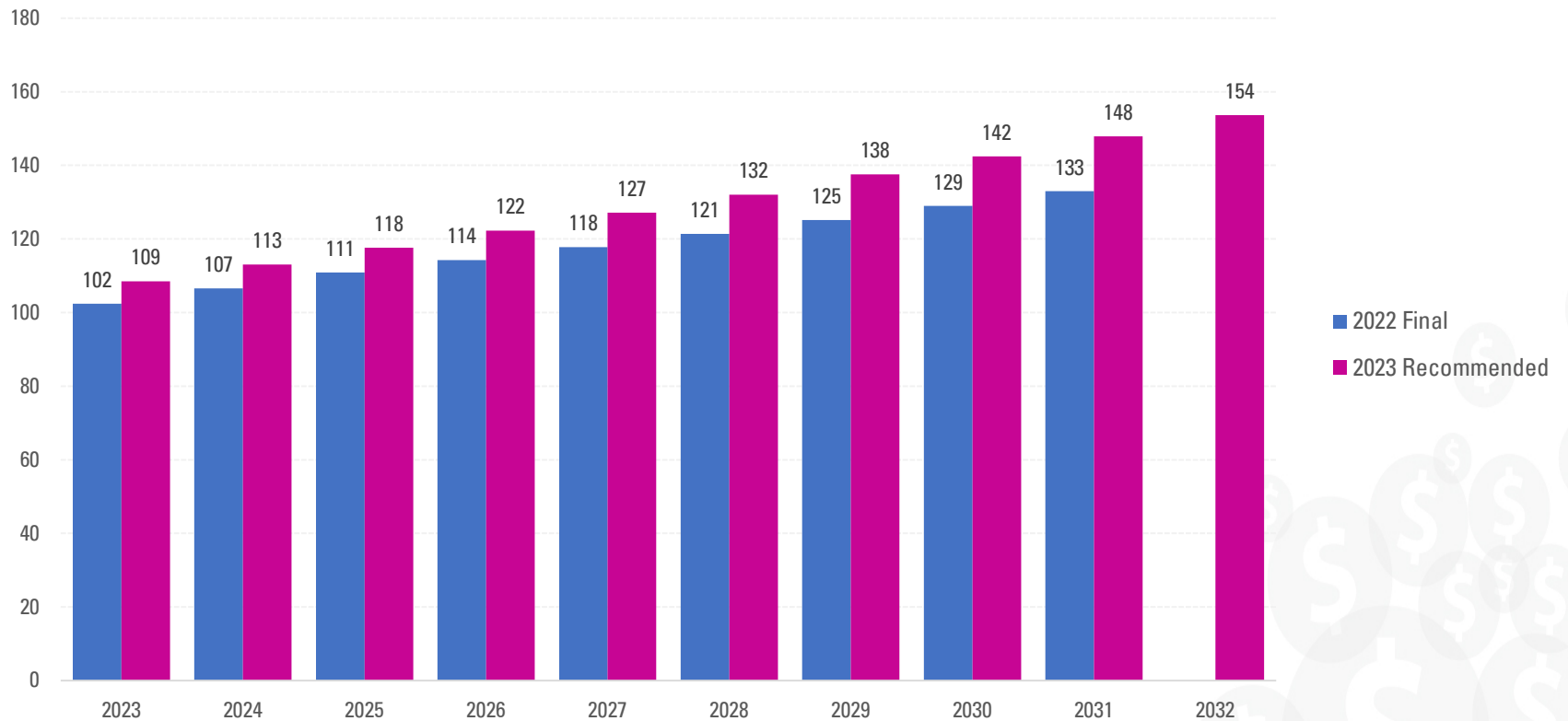
- The 2023 Operating Budget was forecasted to be \$102.4M as part of the 2022 Budget Process
- The Change Between the 2023 Budget Request and the 2023 "Plan" is \$6.1M or 5.96%

# 2023 OPERATING BUDGET - DRIVERS

	2022 Restated Budget Net	2023 Preliminary Budget Net	\$ Change	% Change
<b>Total Division</b>	98,411	108,512	10,101	10.3%
Legislative / Regulation			407	0.4%
Health & Safety			125	0.1%
Inflationary			8,310	8.4%
Operating Impacts from Capital			1,965	2.0%
Budget Alignment			(1,292)	(1.3%)
Service Level Enhancements			586	0.6%
<b>TOTAL 2023 KEY DRIVERS</b>			10,101	10.3%

# 2023 OPERATING BUDGET - FORECAST

## 10-year Operating Budget Analysis (2023 Recommended vs. 2022 Final)



The compound impact of the 2023 OPEX budget request is **\$88.2M** over the 9 common budget years.

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
2023 Recommended Budget	108,512	113,066	117,588	122,292	127,183	132,068	137,522	142,426	147,912	153,613
2022 Approved Budget Plan	102,412	106,574	110,905	114,283	117,776	121,387	125,121	128,981	132,973	-

# 2023 STAFF REQUESTS

SECTION	Last Year's 2023 Request	Current 2023 Request
WUP Office	0	0
WUP Operations	0	0
WSM	1	2
Dir Office	0	0
C&R	4	2
PMO	1	1
CD	1	0
WWWSP	1	0
PMATS	0	0
PO	1	1
CS&CO	0	1
WDWWC	0	1
IFM	1	0
<b>TOTALS</b>	<b>10</b>	<b>8</b>

Director of Watershed Management (1)  
Senior PM Watershed Management (1)

Regulatory Field Technician (1)  
CHEL Quality Analyst/LIMS Tech (1)

Contract Coordinator (1)

Plant Operations Operator (1)

Water Operations Clerk (0.5)  
Scheduler/Dispatcher (0.5)

Contract Inspector (1)

## 2023 STAFF REQUESTS – 2023-2027 FORECAST

SECTION	Last Year's 2023 Request	Current 2023 Request	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast
WUP Office	0	0	0	0	0	0
WUP Operations	0	0	0	0	0	0
WSM	1	2	2	1	0	0
Dir Office	0	0	1	0	0	0
C&R	4	2	4	3	3	1
PMO	1	1	0	0	0	0
CD	1	0	2	0	0	0
WWWSP	1	0	1	1	3	0
PMATS	0	0	1	1	2	0
PO	1	1	0	2	0	0
CS&CO	0	1	1	1	1	0
WDWWC	0	1	1	1	0	2
IFM	1	0	0	1	0	1
<b>TOTALS</b>	<b>10</b>	<b>8</b>	<b>13</b>	<b>11</b>	<b>9</b>	<b>4</b>

*Drivers: legislative requirements, new programs, community priorities, maintaining service levels*

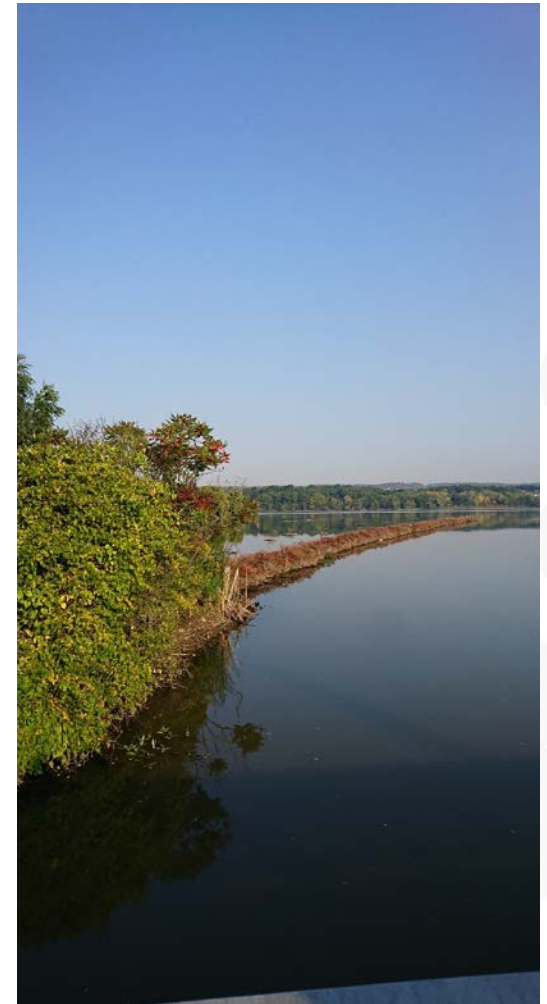
## Director, Watershed Management

Provides lead accountability and strategic direction for:

- The City's response and actions associated with the MECP Director's Order issued to the City for the combined sewer overflow tank discharge to Chedoke Creek
- The development and implementation of the City of Hamilton Watershed Action Plan
- The City's Source Water Protection program

## Senior Project Manager, Watershed Management

- Main contact and project manager for the Watershed Action Plan and future projects
- Budget planning for approved Action Plan projects/ programs
- Meaningful collaboration with watershed stakeholders



*Drivers: legislative requirements, new programs, community priorities, maintaining service levels*

## Regulatory Field Technician

- Increased demands from drinking water sampling program (corrosion control, more monitoring locations, nitrification/water age monitoring)
- Continuation of the Wastewater Surveillance Program (wastewater sampling for COVID, Influenza)

## Quality Assurance LIMS Technologist

- Increased demands from changing legislation and new scope (surface water quality program, stormwater pond quality, corrosion control, sewer discharge permit sampling, unidirectional flushing program)
- Modernizing our service delivery and improving our flexibility and quality in response to the changing needs of our programs



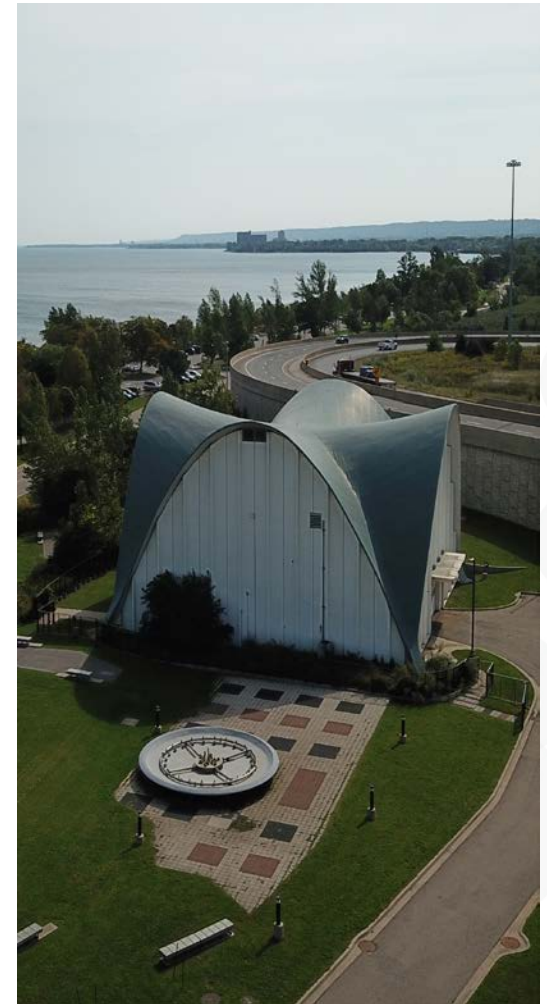
*Drivers: legislative requirements, new programs, community priorities, maintaining service levels*

## Contract Coordinator – Project Management Office

- Support for an increasing number of projects has resulted in unsustainable workloads and affected service levels
- Immediate and long-term needs to support complex/costly capital projects
- Ensures sufficient oversight of contractual documents and support for contract administration

## Treatment Plant Operator - Plant Operations

- Only two operators currently responsible for regular site visits overseeing 41 water facilities (pumping stations, reservoirs, and water towers), and 4 communal well systems
- Allows for more routine inspections and preventative maintenance activities at these facilities
- Ongoing challenges with water age/chlorination management requires additional resources





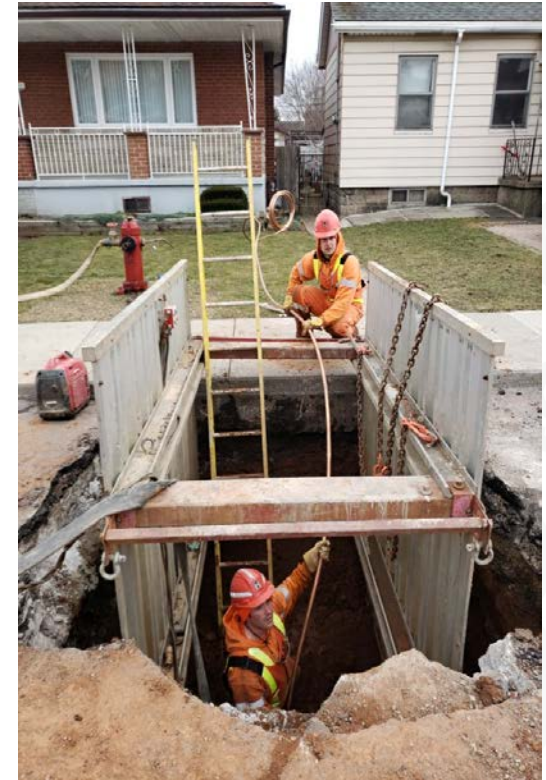
*Drivers: legislative requirements, new programs, community priorities, maintaining service levels*

## Water Operations Clerk (0.5 ) & Scheduler/Dispatcher (0.5)

- Additional demands for virtual water service Size and Type inspections, communication with the community related to lead services, corrosion control program
- Will improve the backlog of meter maintenance processing
- Projected overtime costs exceed cost of 0.5 FTE for Clerk position

## Contract Inspector – WD&WWC

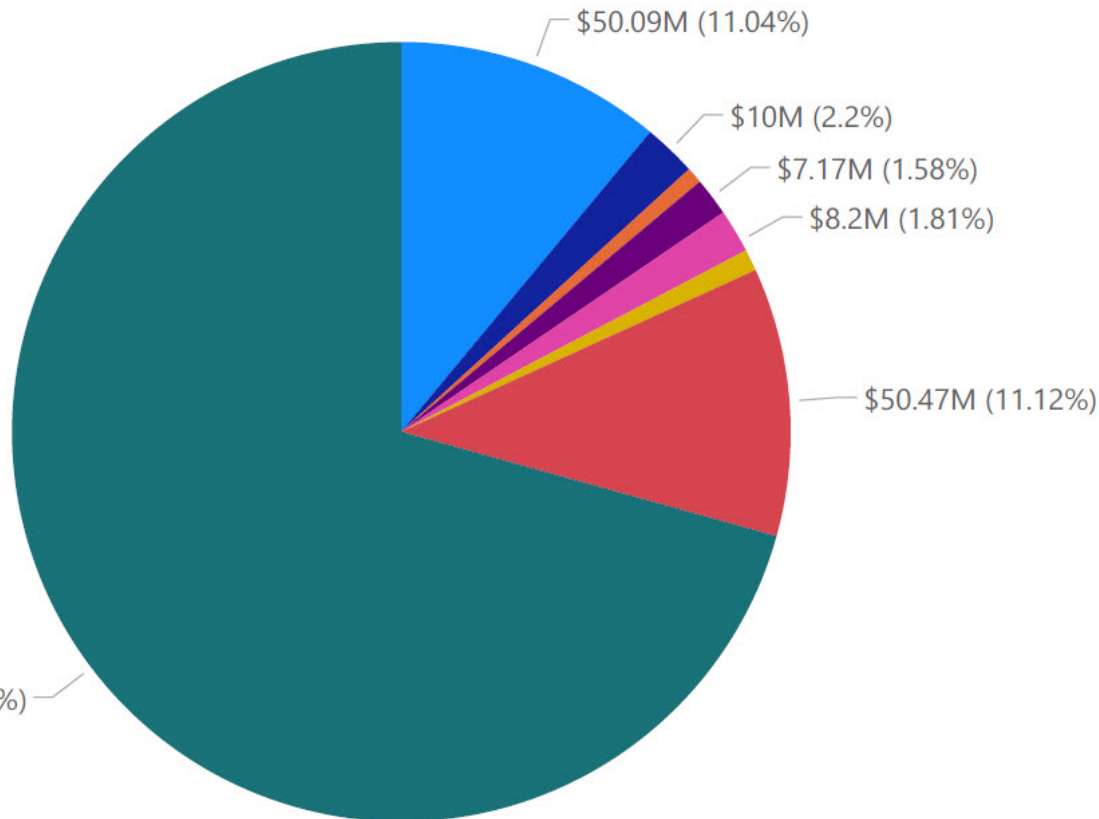
- Full cost recovery with new permit/fee structure for inspecting private non-residential water asset repairs
- No existing programs or dedicated staff to oversee quality of repair and replacement
- Eliminates historical program gap



# 2023 CAPITAL BUDGET

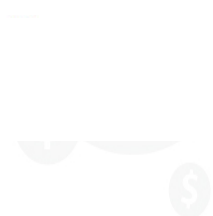


## Rates Net Budget Increases by Program Areas (9-year comparable window, 2022 vs 2023)



### Primary Drivers

- Inflationary and supply chain pressures
- Updated scope and construction cost estimates
- Operating to capital costs transfers



# 2023 CAPITAL BUDGET - DRIVERS

- Woodward WWTP expansion (\$456M, DC funded)
- Water Treatment Plant process upgrades (\$348M)
- Dundas WWTP upgrades (\$140M)
- Woodward WWTP North Plant upgrades (\$96M)
- Woodward WWTP Digesters (\$33M)
- Greenhill Pumping Station (\$53M)
- Parkdale Pumping Station (\$50.7M)
- Advanced Water Meter Infrastructure and Automated Meter Reading (\$15M)
- New Water & Wastewater Billing System (\$10M)
- Linear system (Wards 1,2,3,4,6,7,8)
- Flooding and Drainage Improvement Framework (\$114M)



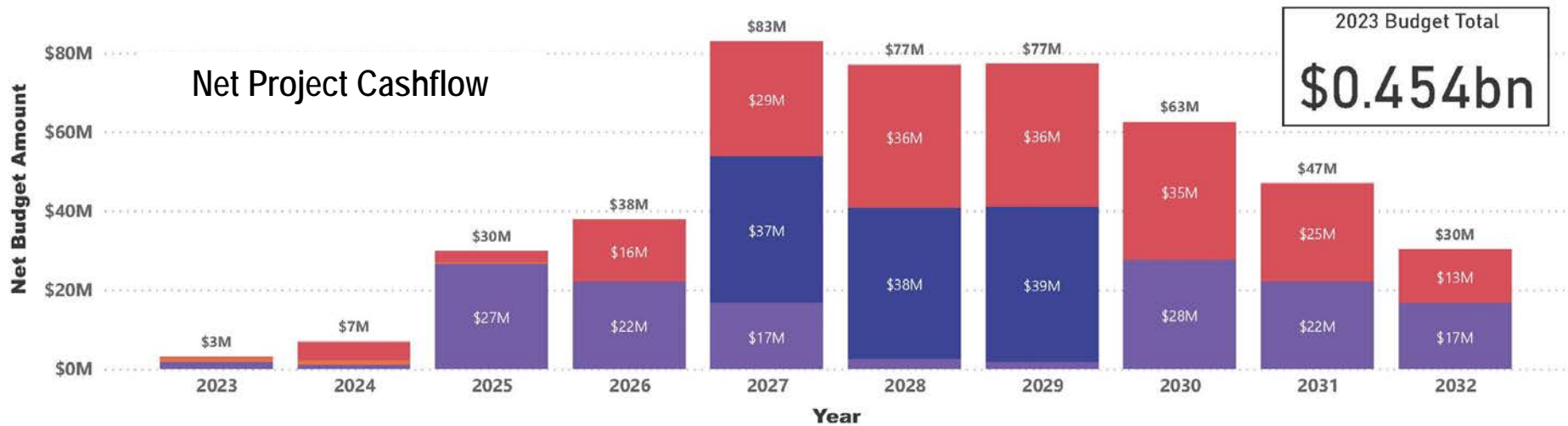
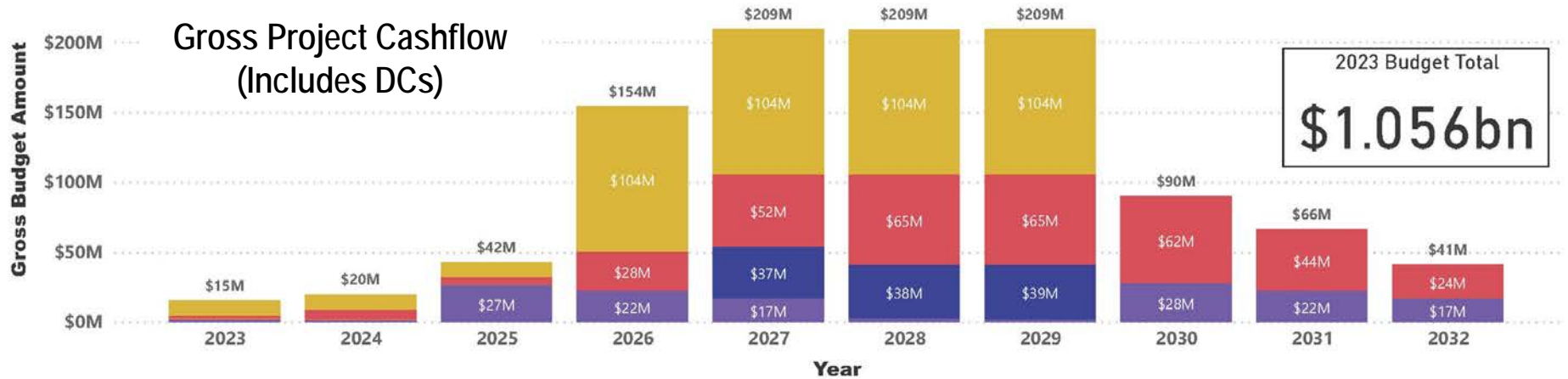
Woodward WTP upgrades



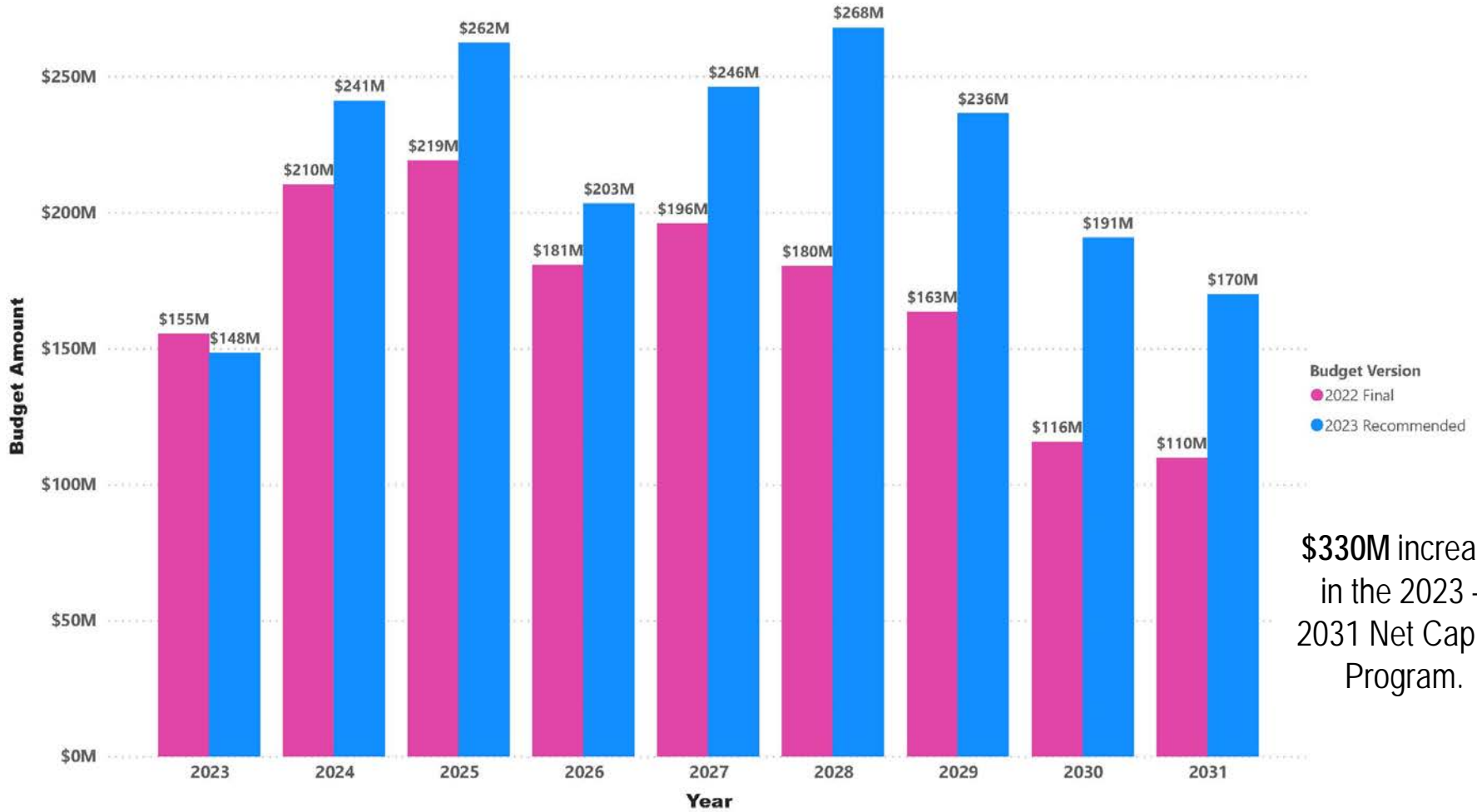
Dundas WWTP upgrades

# 2023-2032 CAPITAL BUDGET OUTLOOK – MAJOR PROJECTS

Title Dundas WWTP Improvements Flooding & Drainage Master Plan Capital Forecast Flooding & Drainage Master Plan Capital Improvements Water Treatment Plant - Phase 2 Process Upgrad... Woodward WWTP - Expansion

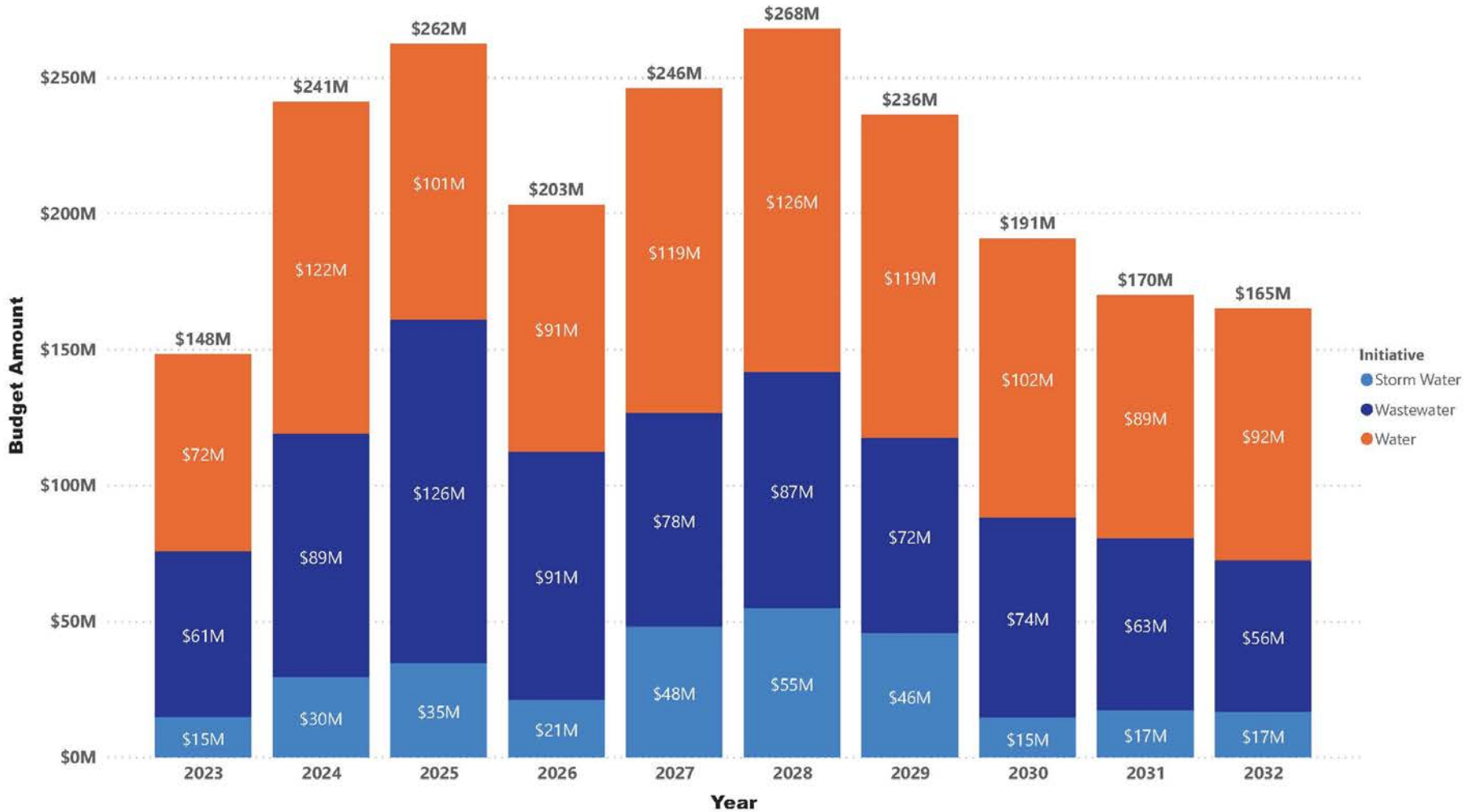


# 2023 CAPITAL BUDGET - FORECAST

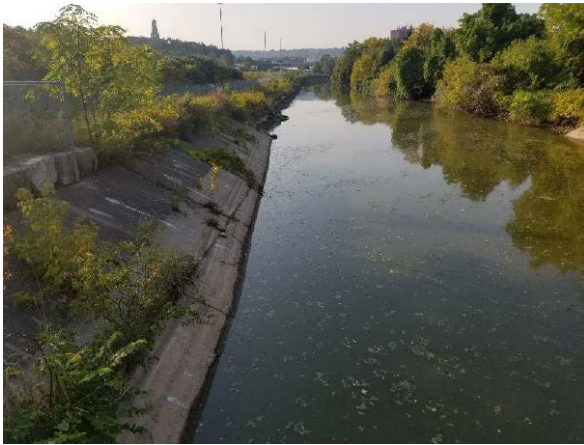


# 2023 CAPITAL BUDGET

## 10-year Net Capital Program by System (2023 Recommended)



# PRESSURES / RISKS NOT IN BUDGET



- Climate Change
- Flooding and Drainage Improvement Framework (\$253M)
- HHRAP objectives for the Dundas WWTP
- Development pressures
- WTP Phase 2 Capital Program - future staffing requirements
- Outcomes from Water, Wastewater & Stormwater Master Plan update
- Automated Meter Infrastructure - future staffing requirements
- Outcomes from Water Age and Water Disinfection Study
- Outcomes from City of Hamilton Watershed Action Plan
- **Capital Program Assumes \$83.8M in Grant Funding**



# THANK YOU





## INFORMATION REPORT

<b>TO:</b>	Chair and Members General Issues Committee
<b>COMMITTEE DATE:</b>	November 24, 2022
<b>SUBJECT/REPORT NO:</b>	Implementation of Utility Billing Services (FCS21082(b)) (City Wide)
<b>WARD(S) AFFECTED:</b>	City Wide
<b>PREPARED BY:</b>	John Savoia (905) 546-2424 Ext. 7298
<b>SUBMITTED BY:</b>	Brian McMullen Director, Financial Planning, Administration and Policy Corporate Services Department
<b>SIGNATURE:</b>	

### COUNCIL DIRECTION

Not applicable.

### INFORMATION

Alectra Utilities Corporation ("Alectra") has been providing water and wastewater / storm account management and billing services to the City of Hamilton ("City") since December 2001 (for details refer to Report FCS19095(a)). The proposed budgeted cost of these services for 2023 is approximately \$6 M.

On August 6, 2021, the City was advised that Alectra's Board of Directors, at its May 21<sup>st</sup> meeting, approved an Alectra staff recommendation to discontinue water billing services. Alectra has committed to upholding the Water Billing Services Agreement that is currently in place with a focus on winding-down water billing services to the City by the time of the current contract expiry, being December 31, 2024 (for details refer to Report FCS21082).

It should be noted that Alectra also provides water billing services to the municipalities of Guelph, Markham and Vaughan. These municipalities also received notice from Alectra of plans to discontinue billing services.

Staff has collaborated with Guelph, Markham and Vaughan with the intent to potentially engage in joint procurements with the expectation that there will be enhanced value for

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OUR Mission: To provide high quality cost conscious public services that contribute to a healthy, safe and prosperous community, in a sustainable manner.

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money by doing so. Collectively, the four municipalities have engaged Kaihen Inc, (Kaihen) as a consultant resource to conduct assessments of each municipality's current systems and processes during an initial Discovery Phase (Phase 1) of the Water Billing Transition Project (Project) (refer to Report FCS21082(a) for details).

Kaihen has completed an analysis of utility billing service delivery models both on a collective group and individual municipality basis with the following three options evaluated.

Option 1: Take utility billing solution in-house (note functions such as meter reading and bill print / mailing would continue to be outsourced as currently subcontracted by Alectra)

Option 2: Hybrid model of in-house and outsourced solutions

Option 3: One outsource provider for complete utility billing solution (essentially a vendor to replace Alectra as the City's water billing agent)

Incorporating feedback from the municipal working group, Kaihen's recommendation is to move forward with a Hybrid Billing Model which would entail each municipality acquiring a billing software solution referred to as a Customer Information System (CIS) and once the CIS is selected, proceed to procure external provided Customer Portal, Contact Centre, Meter Reading and Bill Print services and establish an in-house Back Office unit (back office functions include billing and collection). Joint procurement will be considered for all procured services such that each municipality may select their own vendor solutions.

Water Billing Services Project ID 5142201967 has been submitted for consideration within Report FCS22054 - 2023 Recommended Water, Wastewater and Stormwater Budget Supported Capital Budget. The project seeks approval for \$10 M (\$5 M in 2023 and \$5 M in 2024) to implement a utility billing system for the City. The Project would be funded equally from the Waterworks Capital reserve (108015) and the Sanitary Sewer Capital reserve (108005).

Kaihen will continue to provide consulting services for the Procurement and Evaluation Phase of the Project with the consulting costs being shared by the four municipalities (for details refer to Report FCS21082(a)).

The initial stage for the Procurement Phase will be a procurement for a CIS as it is one of the most important applications within a utility. Its ability to obtain enormous amounts of information and enable back-office and field activities from a single, unified place

means that a CIS not only makes the processes within the utility more efficient, it also acts as a dependable system that customer service representatives, billing clerks, collection staff / agencies, meter shop staff, financial analysts and management can also rely on to do their jobs. The municipalities will be leveraging a combined procurement process to acquire a CIS whereby each municipality can select its own vendor solution. The CIS procurement has commenced with the expectation of releasing the RFP in January 2023.

Staff from various areas of the City in conjunction with Kaihen will form a Utility Billing Procurement and Evaluation team. Staffing requirements to support future vendor management and for in-house back office operations will be determined through Phase 2 of the Project and brought forward in the appropriate budget year for consideration.

Staff will be reporting back regarding the approaches to procurement for Customer Portal, Contact Centre, Meter Reading and Bill Print services.

#### **APPENDICES AND SCHEDULES ATTACHED**

N/A

JS/dt



## INFORMATION REPORT

<b>TO:</b>	Chair and Members General Issues Committee
<b>COMMITTEE DATE:</b>	November 24, 2022
<b>SUBJECT/REPORT NO:</b>	Alectra Utilities Water, Wastewater and Storm 2022 Service Activity Report (FCS22077) (City Wide)
<b>WARD(S) AFFECTED:</b>	City Wide
<b>PREPARED BY:</b>	John Savoia (905) 546-2424 Ext. 7298
<b>SUBMITTED BY:</b>	Brian McMullen Director, Financial Planning, Administration and Policy Corporate Services Department
<b>SIGNATURE:</b>	

### COUNCIL DIRECTION

Not applicable.

### INFORMATION

Alectra Utilities Corporation (“Alectra Utilities”) has been providing water and wastewater / storm account management and billing services to the City of Hamilton (“City”) since December 2001 with a renewed service agreement executed in June 2020 extending terms to December 31, 2024 (for details refer to Report FCS19095(a)).

On August 6, 2021, the City was advised that Alectra’s Board of Directors, at its May 21st meeting, approved an Alectra staff recommendation to discontinue water billing services. Alectra has committed to upholding the Water Billing Services Agreement with a focus on winding-down providing water billing services to the City at the time of contract expiry, being December 31, 2024 (for details refer to Report FCS21082).

The budgeted cost of these services for 2022 is \$5.83 M. Costs are adjusted annually based on the terms of the service agreement, growth in customer accounts and for the City’s 50% share of any postal rate increases that may occur from time to time.

Appendix “A” to Report FCS22077 provides a report of the service activities provided by Alectra Utilities during 2022.

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**APPENDICES AND SCHEDULES ATTACHED**

Appendix “A” to Report FCS22077 – 2022 Water and Wastewater / Stormwater Services Activity Report to the City of Hamilton – October 2022

JS/dt



# **2022 Water and Wastewater/Stormwater Services Activity Report to the City of Hamilton**

October 2022

Christina Koren, Manager Billing

## **2022 in Review**

Alectra Utilities Corporation ("Alectra") services over one million homes and businesses across a 1,924 square kilometre service territory, comprising seventeen communities. Billing, payment, and related customer services are provided to approximately 400,000 water and wastewater customers across four municipalities, including 155,000 customers within the City of Hamilton (City). Approximately 32,000 Hamilton customers receive a stand-alone water services bill where the customer premise is outside of Alectra's electricity distribution service territory.

The following is a summary of 2022 in review:

### **Improved Customer Friendly Messaging on Bills**

- In Q1 – Alectra revised its bill presentment to ensure that low-income customers receiving the Ontario Electricity Support Program better understand their bills and water amounts owing
- In Q2 – As per the City's request, added verbiage to the High-Water Letter indicating if a customer has higher consumption than normal it may be a result of a water leak and provided a link to Alectra's website on ways for customers to investigate possible water leaks and correct them. In addition, there is a link from Alectra's website to visit COH's website on further information on water leaks and City's Leak Protection Program. This Program, administered by COH with approved credits applied by Alectra, has seen a total of 118 approved claims to date this year and approximately \$88K in credits to assist customers with water leaks.

### **Improved Reporting**

Alectra augmented its reports in 2022 to provide additional details, support new requirements, and to address pandemic-related issues, including:

- Enhanced reporting where an account is billing with zero consumption and/or estimated readings.
- Enhanced water meter reports where exceptions exist.
- Provided a vacant premise reconciliation report to support the 2022 budget cycle.
- Multi-year city report of water consumption by postal code for municipal energy analysis / programs.
- Enhanced reporting analytics where a premise has multiple estimated readings.
- Bi-Monthly reporting analytics to show progress and causation on unbilled accounts.
- Enhanced the month-end close process to identify large aging unbilled accounts for greater audit control and visibility.

### **Improvement of Mutual Processes**

- Alectra Utilities and the City re-established cross-functional monthly status meetings to review unbilled accounts, outstanding work orders and other operational concerns.
- Alectra Utilities and the City's Meter Operations provide monthly reporting to support the operational meetings.
- Provide customers with payment arrangement options once an aged account is billed.
- Send out proactive communications to affected customers for unbilled accounts >100 days.



## Unbilled City of Hamilton water accounts

In April 2022, Alectra engaged Hamilton Council to discuss several sensitive, high priority water billing accounts and the current level of unbilled water accounts resulting from COVID-related challenges, including Alectra staffing challenges, and access restrictions to customer premises driven by COH policy / process changes, together with the inability to contact customers to establish appointments to read or repair meters. Alectra advised Council that there were 1,500 unbilled accounts greater than 70 days aged, and that it would take approximately 4 months to resolve to a more sustainable level. The unbilled accounts were comprised of 75% residential and 25% Industrial / Commercial / Institutional (ICI) or multi-residential customer with a water meter 100mm or larger in size.

Unfortunately processing field activities and commercial meter changes between the City and Alectra is a complex process, and all billing processes are manual once an account falls outside of the regular billing parameters. Consequently, where a manual process is not completed on a timely basis, a water bill will not be issued for the affected account i.e., creating an “unbilled” water account.

Alectra committed to implement several corrective actions and controls to enhance its processes and address concerns with unbilled invoices and subsequent back billing as detailed below. The success of these actions is reflected in the Meter Reading and Billing Statistics section on page 7 of this report. As of October 2022, the number of unbilled water accounts has decreased by 51% to 729. Based on approximately 154,600 accounts, this is a bill success rate of >99.5%.

## Process Changes

Alectra Utilities has implemented the following corrective actions and controls to enhance its processes and address concerns with unbilled invoices and related back billings.

### Investment in people

- Hired an additional temporary manager to ensure adequate focus is placed on water billing through December 2024.
- Hired additional temporary resources and offered overtime to provide more capacity.
- Prioritized continuous learning, upskilling, and training to increase staff’s ability to deal with complex billing concerns.
- Assigned a temporary designated team to focus on unbilled water billing and related backlog issues.
- Invested approximately \$100K and 1,400 hours in overtime to support the backlog of activities.

### Process changes in progress

- A new escalation path is planned for the Contact Centre to allow for the escalation of unbilled water accounts to a designated team for quicker action and resolution.
- Implementation of internal KPI’s to monitor the City of Hamilton in-box and to track manual processes related to meter changes and field activities.
- Revise current water billing reports to highlight risk factors and sensitive accounts to better prioritize work (e.g., introduce the number of days unbilled, meter size and customer name to the existing reports).
- Continue to report estimated accounts to the COH and implement actions as directed.
- Review estimating protocols to enhance algorithms when a meter change interrupts the billing cycle.

## Revised City of Hamilton Water Leak Adjustment Policy

As of January 1, 2022, the COH implemented a new Leak Protection Program to cover excess costs resulting from unexpected water leaks in resident's homes. The new Program offers increased coverage for qualifying leaks of up to \$2,500 once every 24 months for residential customers who may incur an unexpected expense on their water bill that water leaks can cause.

Administration of the new Program has shifted to a City third party administrator (ServLine) with account credit adjustments for approved claims continue to be completed by Alectra. To further support the City's new Program, Alectra has updated processes for the Contact Centre and Customer Operations. As mentioned previously, the Program has seen a total of 118 approved claims to date this year and approximately \$88K in credits to assist customers with water leaks.

## Pandemic Recovery and Response

Alectra Utilities is committed to providing accurate water billing to Hamilton customers and recognizes that underestimated consumption is problematic. To help manage estimated consumption, Alectra Utilities has historically had in place several controls, including monthly reporting of estimated accounts to the City. Commercial accounts with more than three consecutive estimated bills were estimated based on two times historical consumption. During the Pandemic, access to inside meters was curtailed, limiting ability to repair/replace malfunctioning touch pads and water meters. As access restrictions to premises have now relaxed, Alectra has worked diligently with City to action stopped meters, malfunctioning touch pads and water meters. Since the return in-person operations in Q2 2022, the COH has addressed 84% of the O&M backlog that built up due to the Covid non-entry protocol.

Alectra Utilities also recognizes long durations of unbilled consumption is problematic for customers, and as a result, systematically monitors its unbilled accounts. In comparison to its customer base, the number of unbilled accounts is relatively small, and Alectra Utilities continues to implement corrective actions to minimize billing delays.

Alectra has implemented a customer-focused approach for families and businesses facing financial challenges

- Alectra continues to support customers in financial difficulty through flexible payment terms.
- Alectra encourages anyone having trouble paying their bills to consider a variety of the available assistance programs, including the Low-income Energy Assistance Program, and the Ontario Electricity Support Program.
- Customers having trouble making payments are encouraged to reach out to Alectra to establish a payment plan that works for them.
- Delivering on the Government of Ontario's mandate for changes to electricity rates and support programs to provide financial relief to consumers. Alectra delivered approximately \$6MM in targeted funding to residential and small business customers.

## 2022 Service Overview

In 2022, Alectra's suite of water related services for the City included:

- Meter reading
- Bill calculation, printing, mailing and electronic bill presentment options (paperless e-billing)
- Customer notifications
- Full customer Contact Centre support, responses to inquiries and liaison between the customer and the City for escalated concerns including high consumption inquiries related to seasonal usage
- Supporting the City's Leak Adjustment Policy by providing billing history for customers with leak adjustment claims to the City and processing credit adjustments to accounts for customers with approved leak claims
- Payment processing
- Account collections including the administration of payment arrangements
- Online customer tools and access to account information including account status and consumption information
- Monthly and annual statistical reporting
- Ad-hoc reporting upon request
- Completion of work orders; issuing service orders to Hamilton Water
- Transfers of water and wastewater/stormwater arrears to property tax roll
- Billing, invoicing, payment processing and management of Sewer Discharge Permits
- Billing and collection of loans related to the City's Lead Water Service Line Replacement Loan Program
- Managing Energy & Water Reporting and Benchmarking (EWRB) legislative reporting requirements for customers

## Meter Reading and Billing

The foundation of customer billing services is the receipt of accurate and timely invoices. Alectra Utilities manages its meter reading schedules daily to ensure that water meter reads are available to support monthly water and wastewater/storm billing for all customer types.

Alectra Utilities and the City strive to obtain actual meter readings for accurate billing. Where an actual reading cannot be obtained, the account is billed to an estimated reading based on the account's historical usage. Meter read request cards that alert customers an actual reading was not obtained are left at the property. Estimated reads are clearly identified on the customer's bill. Meter reads may be provided by calling Alectra Utilities Customer Service department, utilizing our automated Interactive Voice Response ("IVR") telephone system, or completing a water meter reading online form on the Alectra Utilities website. If three consecutive meter reading estimates occur, a separate notification letter and an automated IVR outbound call are provided as additional customer engagement communications.

As the pandemic measures came to an end, many schools and businesses were reopened and allowed access to Meter Readers and City Technicians, rendering the meter accessible. Approximately 40,000 bills based on estimated meter reads were issued during the pandemic. Alectra re-billed customers if the estimated meter read varied significantly from the actual meter read. Catch-up bills were issued when estimates proved to be lower than the actual metered usage. Customer friendly language to explain variances was provided by Alectra Call Centre and Billing Representatives. Actual meter reads are the foundation of providing customers accurate bills. The pandemic and inclement weather showed an increase in the number of estimates and would be less than 2 percent of total water reads.

Electronic "smart" water meters have been installed in hard-to-reach locations and are read through Alectra's wireless telecommunications. Currently more than 600 electronically read water meters have been installed.

In 2022, Alectra continued to manage some aspects of the City's Lead Water Service Line Replacement Loan Program. This includes the billing and collection of loans provided to residential property owners who qualify for the program. Previously, these loans were collected via the property owner's taxes.

Alectra's Customer Information System ("CIS") supports billing for a range of fees and charges required by the City including metered rates, various non-metered rates, and fixed charges based on meter size. Complex billing scenarios such as water haulers, master/satellites, seasonal meters, compound meters and electronic read water meters are all also managed through custom configuration within the CIS. Invoicing of the City's Wastewater Abatement Program, Private Fire Line user fees, Sewer Discharge Permit fees, back-billings and various Hamilton Water service charges are also managed by Alectra's billing application.

The City's meter replacement and meter maintenance programs were put on hold due to COVID-19 for much of 2021. Alectra's Billing team is now working cooperatively with the City to finalize any outstanding work orders.

In accordance with Council-approved water billing policy changes effective June 2018, Alectra Utilities continues to transfer residential accounts into the registered property owner's name as tenants vacate properties. Property owners benefit through opportunities to save interest and administrative costs related to tenant arrears being transferred to the tax roll as well as having the ability of identifying and responding

to potential leaks at their rental property. Since June 2018, Alectra has transitioned 14,676 accounts to property owners.

### Meter Reading and Billing Statistics

	2022	2021	2020	2019	2018
	Forecasted	Actual	Actual	Actual	Actual
Number of Invoices	1,866,000	1,867,483	1,864,004	1,865,340	1,794,337
Revenue	\$234 MM	\$233 MM	\$229 MM	\$223 MM	\$206 MM
Meter Reads	1,900,000	1,813,146	1,736,440	1,662,759	1,624,330
Meter Read Success Rate	96%	96%	96%	95%	95%
New Accounts Created	1,300	1,660	1,389	2,941	2,818
*Touchpad", not working" Service Orders	200	989	565	879	2,554
Service Orders to relocate remote touchpad	100	212	120	278	625

*\*Alectra reviews read errors - "Touchpad", not working", reported by our third-party meter reader. A "double check" verification is completed by a lead hand. Due to this Alectra initiative this has attributed to a significant reduction in service orders sent to the COH.*

<b>Unbilled Accounts</b>	<i>May</i>	<i>June</i>	<i>July</i>	<i>August</i>	<i>Sept</i>	<i>October</i>
<b><u>Days aging</u></b>						
<b>&gt;70 days</b>	1,167	1,025	796	596	591	729
<b>70-100 days</b>	607	527	364	426	486	574
<b>100-200 days</b>	319	391	343	153	84	135
<b>&gt;200 days</b>	246	107	89	17	21	20
<b><u>Meter Size</u></b>						
<b>&gt;200</b>	7	-	-	6	1	2
<b>100-200</b>	21	17	12	21	13	12
<b>25-100</b>	94	63	47	71	49	47
<b>15-25</b>	1,007	855	618	434	433	574
<b>blank</b>	38	90	119	64	95	94
<b>Total</b>	1,167	1,025	796	596	591	729
<b><u>Customer Type</u></b>						
<b>res metered</b>	925	810	586	397	392	546
<b>comm metered</b>	210	131	96	160	121	96
<b>unmetered</b>	20	31	61	34	24	35
<b>Overstrength</b>	12	53	53	5	54	52
<b>Total</b>	1,167	1,025	796	596	591	729

## **Customer Care and Communications**

Alectra's mission continues to be customer focused. For our Contact Centre, our goal is to listen to our customers and use that feedback to improve our processes and customer experience.

In 2022, the Contact Centre's goal is to meet or exceed its target of answering 70% of all in-bound calls within 30 seconds. Due to increasing digital channel customer adoption, our call volume has decreased by approximately 7%. The offset is partially due to improvements in our online offerings for automated services such as Pre-Authorised Forms and Move out processing that requires minimal agent interaction for exceptions only. However, Alectra's agents now respond to increasing requests received through email, its website, social media, self-service portals, and the Alectra after-hours voice mailbox.

Alectra's Contact Centre's Quality Assurance Program supports its commitment to provide exceptional customer service to its customers. Calls are evaluated on a set of criteria that supports an excellent customer service experience, while providing insight on our agents' performance. Coaching sessions are scheduled and held frequently, where constructive feedback is provided to our agents during these sessions. These sessions also help direct our training strategy.

Analysis of our First Call Resolution and CSAT surveys also provide insight into our customers feedback on the level of service received. Alectra continues to score at or above the Ontario utility average of 92% customer satisfaction measures.

In 2021 Alectra introduced a new "Voice of the Customer Council" program which is comprised of both our customer facing teams and Management representatives. The purpose of the program is to provide a forum for our front-line Customer Service Representatives to share their insights on customer feedback of their customer experience. The program helps generate opportunities and strategies to enhance service and improve customer satisfaction. We are continuously using this feedback to improve our service provided which lead to strategic changes to our customer engagement technologies and applications such as our website. The Contact Centre promotes customer-friendly electronic payment methods, paperless e-billing solutions and online services with every customer interaction.

Alectra's website at [www.alectrautilities.com/hamilton-water](http://www.alectrautilities.com/hamilton-water) has a section dedicated to water and wastewater/storm services and customer education including:

- Water and wastewater/storm billing explanations
- Understanding your water bill
- Water and wastewater/storm rates
- How to read a water meter
- Things you need to know before buying a home or going away
- Information regarding the City's Water Account Privacy Statement
- Information regarding various billing policies including the City's Arrears Policy, Back billing Policy, Payment Arrangement Policy and Water Leak Adjustment Policy
- Information detailing who is responsible for water and wastewater/storm charges
- Information regarding Private Fire Line Charges and Sewer Discharge Permit Charges
- Water and wastewater/storm service user fees
- Frequently asked questions
- Water saving tips and conservation

Customers can access Alectra's easy to use MyAccount portal to securely view their bills, understand historical water consumption and utilize account management features such as the paperless billing option. Alectra will be initiating a Customer Experience project in the fourth quarter of 2022 with the goal of implementing further enhancements and increasing ease of use on the Alectra My Account Portal.

The Customer Care team supports billing, payment services and collection activities including all components of water and wastewater/storm account management. The Contact Centre's training team has implemented water and wastewater training for additional resources to support our service provided on the Hamilton Water dedicated queue.

The Contact Centre responds to queries such as:

- Notification of a change of address (processing of move in and out for both owner and tenant accounts)
- Requests to discuss payment options
  - Pre-authorized payments
  - Equal payment plans
- How rates and charges are calculated
- Payment arrangement options and Collection activities
- Conservation information
- Transfer of water/wastewater/storm arrears to the property tax roll
- Meter reading access issues
- Inquiries about high usage / high bills (including the provision of leak detection education) and meter accuracy inquiries
- Alectra also has a voicemail where customers may leave a water read

Timely customer communications support positive customer relations. City bill inserts are included with invoices to advise customers of rate schedule changes or policy modifications. Additionally, special mail-outs are coordinated for the City as requested.

*Customer calls answered within 30 seconds:*

	2022 Forecast	2021 Actual	2020 Actual	2019 Actual	2018 Actual
Incoming Calls	70%	70%	67%	76%	79%

Alectra’s Contact Centre is committed to providing timely, effective and efficient service. Alectra values our customer’s time and as such our goal is to respond to inquiries and provide First Call Resolution whenever possible. Year-to-date, over 80% of customers surveyed indicated that their request was resolved in one call to the Contact Centre.

**Payment Options and Collection Services**

Alectra offers a variety of payment options tailored to each customer’s unique needs. Customer payment options include:

- Automatic pre-authorized payment plans
- Equal monthly payment plans
- Cheque, money order, or bank withdrawal from most financial institutions
- Telephone banking
- Internet banking
- Credit Card Payment (with a Convenience Fee)

The *Municipal Act, 2001*, allows unpaid water and wastewater fees and charges to be placed on the City of Hamilton tax roll for the property to which the public utility was supplied, irrespective of who the consumer or account holder may be or have been.

In accordance with the City's Water/Wastewater Arrears Policy and to assist property owners who direct water and wastewater/storm billings to a tenant, Alectra endeavors to notify property owners of tenant/account holder arrears at 30 calendar days beyond the due date. If the account remains unpaid, the water/wastewater/storm arrears will be added to the property’s tax roll when the account is 60 calendar days beyond the due date. Alectra manages the process of electronically transferring the outstanding fees and charges related to active and final billed accounts to the property tax roll.



## Payment Options and Arrears Support

	2022 Forecasted	2021 Actual	2020 Actual	2019 Actual	2018 Actual
Percentage of customers on Pre-Authorized Payment	27%	27%	26%	26%	26%
Water/Wastewater on Equal Payment Plan	7,600	7,691	8,113	8,524	8,911
30 day / 60 day Arrears Notification Letters sent	40,000	48,466	53,115	54,415	56,583
Number of Accounts Transferred to Tax Roll	20,000	23,762	21,135	20,151	15,875
Arrears Value	\$4 MM	\$4.7 MM	\$4.1 MM	\$3.0 MM	\$3.0 MM

## Administration and Management of City Programs and Special Requests

**Arrears Certificates:** Upon request from a solicitor, water and wastewater/storm arrears certificates are sent advising of any outstanding charges that remain at the time of closing for real estate transactions.

**Service Orders:** Alectra Utilities processes a variety of service orders from Hamilton Water's Customer Service and Community Outreach section related to activities such as new meter installations, meter replacements and account transfers.

**High Water Read Notification Program:** On behalf of the City, Alectra provides notification to account holders who experience higher than average historical water consumption. This timely notification provides customers the opportunity to identify and repair any leaks or identify usage that would affect the amount of water consumed.

**Water Leak Adjustment Policy:** The City of Hamilton's Water Leak Adjustment Policy provides residential customers who utilize City of Hamilton water services with financial assistance under certain circumstances. The Policy provides an opportunity for customers to request adjustments to water/wastewater/storm charges where repair(s) of water leaks within private property occurs, excluding any water leaks in the water service pipe.

Customers may request adjustments to water and wastewater/storm charges by completing a Water Leak Adjustment Request form (available on the City's website). Information on the Policy guidelines, qualifications and application form is available at [www.hamilton.ca/leaks](http://www.hamilton.ca/leaks).

**Billing of Seasonal Accounts:** Reads and their related work orders completed by the City are forwarded to Alectra Utilities twice per year and the information is used to reconcile seasonal accounts.

**Billing of Sewer Discharge Permits:** On a quarterly basis, Alectra bills sewer discharge permits with the City's annual budget for these revenues of almost \$10.5MM. Monthly reporting of unpaid accounts is forwarded to the City for tracking purposes.

## Program Management Information

	2022 Forecast	2021 Actual	2020 Actual	2019 Actual	2018 Actual
Service Orders Completed	20,000	25,762	25,107	21,877	13,559
High Water Notification Letters	25,000	17,657	22,086	34,642	12,340
Leak Adjustment Request Forms Received	N/A	69	55	53	41
Leak Adjustment Credits applied to accounts	\$100,000	\$25,258	\$25,949	\$26,768	\$66,930

## Reporting

Alectra has reporting to manage the water and wastewater/storm billing activities including exception handling. A variety of statistical and summary reports are sent to the City each month to enable analysis and program oversight, including:

- Monthly billing detail report
- Adjustments detail report
- Leak Adjustments summary
- Wastewater Abatement summary
- Non-metered account listing
- Large water user billing report
- Meter read accuracy report
- Rate types and meter size
- Sewer Discharge Permit billing report
- Private Fire Line charges
- Summary of aging arrears and current account receivables
- Revenue report by rate class
- Trial balance for all account receivable transactions
- Adjustments by type

Energy & Water Reporting and Benchmarking (“EWRB”) legislative regulations require property owners that have facilities greater than 100,000 square feet to report annual energy and water consumption and performance data to the Ontario Ministry of Energy. Alectra provides both electric and water consumption information to our customers for them to comply with the mandatory reporting for these large buildings. In 2022, Alectra provided EWRB information to approximately 100 large industrial and institutional customers and condominium corporations.

## Community Engagement

Alectra maintained its support for than 30 COVID-safe community programs throughout the year including Hamilton YWCA’s Walk a Mile in Her Shoes, Second Harvest Food Rescue Program, a Make A Wish donation for a child in Hamilton and more. In the summer, Alectra proudly sponsored a COVID-19 vaccination clinic in Hamilton’s Barton Street. To mark the end of the year, Alectra backed the Niagara Health Foundation’s Celebration of Lights donation matching campaign where it matched up to \$10,000 in donations to purchase urgent care equipment for Niagara Health.