



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

TO:	Chair and Members General Issues Committee
COMMITTEE DATE:	November 23, 2020
SUBJECT/REPORT NO:	2021 Recommended Water, Wastewater and Stormwater Budget (FCS20073) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	John Savoia (905) 546-2424 Ext. 7298 Tran Trang (905) 546-2424 Ext. 4371
SUBMITTED BY:	Mike Zegarac General Manager, Finance and Corporate Services Corporate Services Department
SIGNATURE:	

RECOMMENDATIONS

- (a) That the metered water consumption charges for average residential properties (meters up to 21mm in size) in the City of Hamilton be imposed at the following rates, effective January 1, 2021:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.85
10 +	1.70

- (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 \$1.70 per cubic metre, effective January 1, 2021;
- (c) That daily water fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2021:

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Meter Size	Daily Water Rate
15 mm	\$0.38
16 mm	\$0.38
20 mm	\$0.38
21 mm	\$0.38
25 mm	\$0.95
38 mm	\$1.90
50 mm	\$3.04
75 mm	\$6.08
100 mm	\$9.50
150 mm	\$19.00
200 mm	\$30.40
250 mm	\$43.70
300 mm	\$64.60

- (d) That the wastewater / storm treatment charges for average residential properties (meters up to 21mm in size) in the City of Hamilton be imposed at the following rates, effective January 1, 2021:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.91
10 +	1.82

- (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 \$1.82 per cubic metre, effective January 1, 2021;
- (f) That daily wastewater /storm fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2021:

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Meter Size	Daily Wastewater / Storm Rate
15 mm	\$0.42
16 mm	\$0.42
20 mm	\$0.42
21 mm	\$0.42
25 mm	\$1.05
38 mm	\$2.10
50 mm	\$3.36
75 mm	\$6.72
100 mm	\$10.50
150 mm	\$21.00
200 mm	\$33.60
250 mm	\$48.30
300 mm	\$71.40

- (g) That the residential non-metered annual water rate be imposed at the flat rate of \$620.50 per annum, effective January 1, 2021;
- (h) That the residential non-metered annual wastewater / storm rate be imposed at the flat rate of \$664.30 per annum, effective January 1, 2021;
- (i) That the residential combined non-metered annual water and wastewater / storm rate be imposed at the flat rate of \$1,284.80 per annum, effective January 1, 2021;
- (j) That the Private Fire Line rates be imposed at the following rates, effective January 1, 2021:

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Connection Size		Monthly Rate
mm	inches	
25	1	\$3.73
38	1.5	\$8.58
50	2	\$14.92
75	3	\$33.57
100	4	\$59.68
150	6	\$134.28
200	8	\$238.72
250	10	\$238.72
300	12	\$238.72

- (k) That the 2021 Water, Wastewater and Storm Proposed User Fees and Charges be imposed as per Appendix “G” to Report FCS20073, effective January 1, 2021;
- (l) That the 2021 Water, Wastewater and Stormwater Rate Supported Operating Budget in the amount of \$245,554,888 be approved as per Appendix “A” to Report FCS20073;
- (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 2021-2030 Water, Wastewater and Stormwater Rate Supported Operating Budget forecast (Appendix “A” to Report FCS20073) be approved, in principle;
- (n) That the 2021 Water, Wastewater and Stormwater Rate Supported Capital Budget and Financing Plan in the amount of \$299,911,000 be approved as per Appendices “K”, “N”, “Q” and “S” to Report FCS20073;
- (o) That the 2021-2030 Water, Wastewater and Stormwater Rate Supported Capital Budget forecast and financing plan (Appendix “I” to Report FCS20073) be approved, in principle;
- (p) That the City Solicitor be authorized and directed to prepare, for Council approval, all necessary by-laws respecting the 2021 water and wastewater / storm user fees, charges and rates set out in Recommendations (a) through (l) of Report FCS20073;
- (q) That the additional 14.0 Full Time Equivalent Rate Supported Staffing be approved as per Appendix “F” to Report FCS20073;

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- (r) That the General Manager, Finance and Corporate Services, be authorized to and directed to negotiate and confirm the terms, 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 \$117,396,000 Canadian currency as attached in Appendices “K”, “N” and “Q” to Report FCS20073, which includes \$48,000,000 in Rate Supported municipal debt and \$69,396,000 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 subsection (s) including, but not limited to, external legal counsel, fiscal agents and Infrastructure Ontario’s Loan Program;
- ii) That the General Manager, Finance and Corporate Services, Mayor and City Clerk are each authorized and directed to enter into and / or execute, on behalf of the City of Hamilton, all agreements and necessary ancillary documents requiring their respective signatures, to secure the terms and issuance of the debenture issue(s) described in subsections (s), and (t), in a form satisfactory to the City Solicitor;
- iii) That the Mayor and City Clerk are authorized and directed to enter into and / or execute, on behalf of the City of Hamilton, all agreements and necessary ancillary documents not requiring any specific signing authority, to secure the terms and issuance of the debenture issue(s) described in subsections (s) and (t), in a form satisfactory to the City Solicitor and with content acceptable to the General Manager, Finance and Corporate Services;
- (t) That all necessary By-Law(s) be passed to authorize the debenture issue(s) negotiated, placed and secured in accordance with subsections (r) and (s).

EXECUTIVE SUMMARY

The 2021 Recommended Water, Wastewater and Stormwater (Rate) Budget is submitted for Council’s consideration. The 2021 Rate Budget balances the need to invest in environmental infrastructure upgrades and changing trends in demand for water and growth in users relative to “Places to Grow.” Over the period 2021 to 2030, water, wastewater and stormwater capital investment is forecast at \$2.53 B which represents an increase of \$0.04B from last year’s 10-year forecast. This budget continues to focus on growing our economy, environmental stewardship, financial sustainability and effective inter-governmental relations.

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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.

The 2021 Rate Operating expenditures in the 2021 Requested Budget of \$90.7 M reflects an increase of \$3.9 M or 4.5% over than the 2020 budget. The majority of costs are fixed in nature at approximately 90% of total operating costs including employee related costs, property taxes, materials and operating supplies and corporate cost allocations. The remaining costs are variable related to production volumes (heating fuel – natural gas, hydro, fluid and chemicals, biosolids contract).

The 2021 Operating expenditures contains the request for 14 new full-time equivalent (FTE) employees. The net operating cost of the request is approximately \$0.3 M. The FTE requests are largely driven by 3 FTEs required to operate and maintain the Woodward Wastewater Treatment Plant, 4 FTEs requested to support the Substandard Water Service Replacement Program and 2 FTEs to ensure ongoing compliance to meet Storm Water Program standards. For the full FTE request details, please refer to Appendix "F" to Report FCS20073.

Beyond employee related costs there are increases in operating and maintenance expenditures (O&M). Employee related costs are increasing as a result of cost of living adjustments and FTE requests. Increases in O&M expenditures are largely driven by the storm operating and maintenance program to meet compliance standards, as well as, increases in hydro needs related to the new Biosolids Facility. Lastly, the price for fluid and chemicals used to treat water and wastewater at the Plants is increasing versus last year's budgeted price.

Capital financing costs, including reserve transfers in the 2021 Requested Budget of \$155 M, reflect an increase of \$8.6 M over the 2020 Budget. With non-rate revenues of \$2.9 M, rate revenues of \$242.7 M are required to meet operating (program and capital financing) expenditures.

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Table 1 summarizes the budget changes for the 2021 Requested Budget:

Table 1

Summary of the 2021 Operating Budget				
(\$ millions)	2020 Restated Budget	2021 Requested Budget	2021 Requested / 2020 Restated Change	
			\$	%
Expenditures				
Program Expenditures	\$ 86.7	\$ 90.7	\$ 3.9	4.5%
Capital/Debt / Reserve Financing	\$ 146.3	\$ 154.9	\$ 8.6	5.9%
Total Expenditures	\$ 233.0	\$ 245.6	\$ 12.5	5.4%
Revenues				
Rate Revenue	\$ 230.0	\$ 242.7	\$ 12.7	5.5%
Non-Rate Revenue	\$ 3.0	\$ 2.9	(\$ 0.2)	(0.1%)
Total Revenue	\$ 233.0	\$ 245.6	\$ 12.5	5.4%
Average Residential Water / Wastewater / Storm Bill	\$ 752.60	\$ 784.80	\$ 32.20	4.28%

Note: Anomalies due to rounding.

Chart 1 highlights that the proposed combined 4.28% rate increase is driven almost entirely by increased capital financing expenditures in 2021.

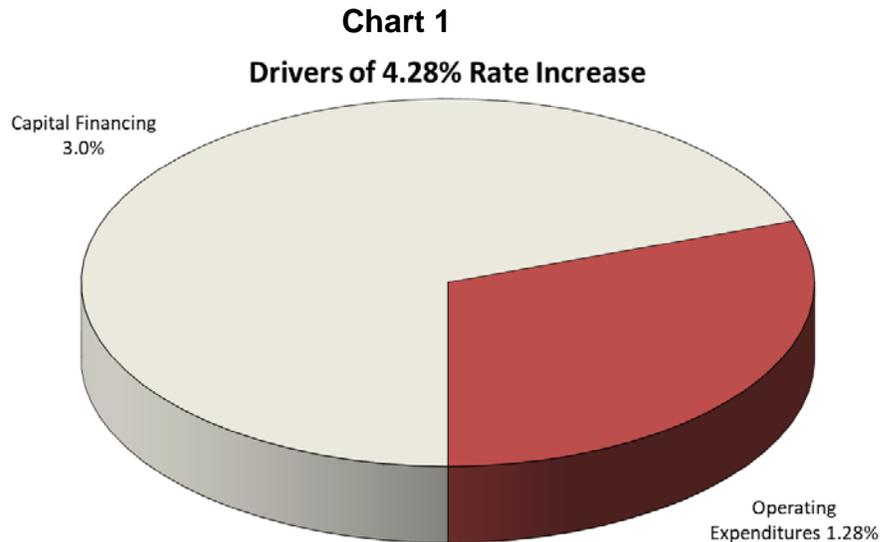


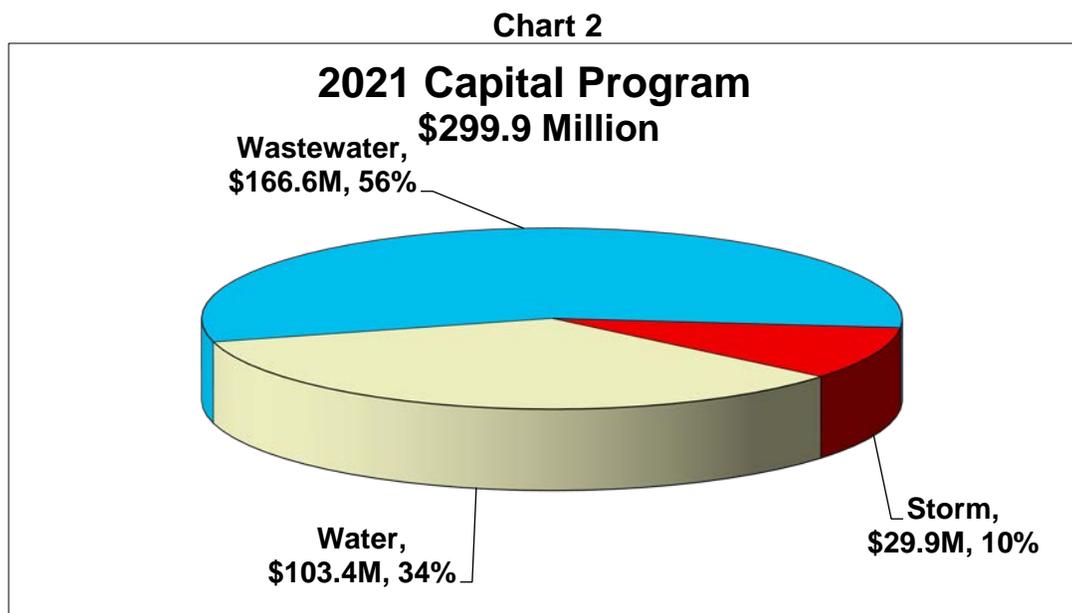
Table 2 identifies the proposed rate increase impact on the average residential customer.

Table 2
Impact of Recommended 2021 Water and Wastewater / Storm Rate Increases on a Typical Residential Bill
(Based on annual water consumption of 200 m³)

2020 Residential Bill	\$752.60
2021 Residential Bill	\$784.80
Recommended Change (\$)	\$32.20
Recommended Change (%)	4.28%

The recommended 2021 Rate Supported Financial Strategy endeavours to achieve a balance between capital investment, rate of growth and rate stability. The 2021 Rate Supported Strategy links the change in demand for water with a staged approach to necessary capital investments at the Woodward Wastewater Treatment Plant (WWTP). The current strategy calls for capital funding in 2021 of approximately \$299.9 M (2020\$) and \$2.53 B (2020\$) for the 2021– 2030 timeframe. The 2021 Strategy includes financing from the federal and provincial governments with respect to the WWTP rehabilitation and upgrades, specifically, in support of the Hamilton Harbour Remedial Action Plan.

Chart 2 provides a breakdown of the 2021 Rate Capital Program totalling \$299.9 M, by the three major program areas: Water, Wastewater and Storm.



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Report FCS20073 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 FCS20073 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 29

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial: As per Recommendation (m) of Report FCS20073, approval of the 2021 Water, Wastewater and Stormwater Supported Operating Budget will support operating and capital financing expenditures of \$245,554,888 for 2021.

Staffing: The 2021 Rate Supported staffing complement reflects a requested increase of 14.0 in total FTE headcount as reflected in Appendix “F” to Report FCS20073.

Legal: Recommendation “(t)” of Report FCS20073 relates to By-laws requiring Council approval, respecting the implementation of 2021 water and wastewater user fees and charges set out in the Recommendations (a) through (l) of Report FCS20073.

HISTORICAL BACKGROUND

The 2021 Rate Budget continues to support the priority of investing in infrastructure as evidenced by the 2021 to 2030 forecast investment of approximately \$2.53B in water, wastewater and stormwater capital infrastructure.

Report FCS20073 outlines the various aspects and components that the recommended 2021 Rate Supported strategy incorporates:

- Sustainable Rate Strategy
- Proposed 2021 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 2021 - 2030 financing plan.

RELEVANT CONSULTATION

Public Works, Hamilton Water Division, provided operating / capital expenditure and non-rate revenue forecasts as reflected in Report FCS20073.

ANALYSIS AND RATIONALE FOR RECOMMENDATIONS

Appendix "A" to Report FCS20073 summarizes the 2021 operating budget expenditures (program and capital financing) and revenues of \$245.6 M compared to the 2020 restated budget of \$233 M.

The 2021 Operating expenditures in the 2021 Requested Budget of \$90.7 M reflect an increase of \$3.9 M or 4.5% over the 2020 budget. The majority of costs are fixed in nature at approximately 90% of total operating costs including employee related costs, property taxes, materials and operating supplies and corporate cost allocations. The remaining costs are variable related to production volumes (heating fuel – natural gas, hydro, fluid and chemicals, biosolids contract).

The 2021 Operating expenditures contains the request for 14 new full-time equivalent (FTE) employees. The net operating cost of the request is approximately \$0.3 M. The FTE requests are largely driven by 3 FTEs required to operate and maintain the Woodward Wastewater Treatment Plant, 4 FTEs requested to support the Substandard Water Service Replacement Program and 2 FTEs to ensure ongoing compliance to meet Storm Water Program standards. For the full FTE request details, please refer to Appendix "F" to Report FCS20073.

Beyond employee related costs there are increases in operating and maintenance expenditures (O&M). Employee related costs are increasing as a result of cost of living adjustments and FTE requests. Increases in O&M expenditures are largely driven by the storm operating and maintenance program to meet compliance standards, as well as, increases in hydro needs related to the new Biosolids Facility. Lastly, the price for fluid and chemicals used to treat water and wastewater at the Plants is increasing versus last year's budgeted price.

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In preparation of the recommended combined rate increase for 2021 and considering the pandemic's impact on all ratepayers, an assessment of ratepayers' ability to pay current water and wastewater/storm billings during 2020 has been completed. To determine whether customers have been able to pay bills within the normal invoice due dates, staff reviewed the number of arrears notifications Alectra has issued when account arrears remain outstanding 30 days post the invoice due date. Alectra reports this metric within their annual service activity report (for details refer to Report FCS20072). Alectra is estimating that the total number of arrears letters issued by 2020 year-end will be approximately 2,000 fewer than were issued in 2019.

Per the City's Arrears Policy unpaid water and wastewater/storm arrears that remain unpaid 60 days past invoice due date are transferred to the property's tax roll. Alectra is forecasting there will be about 650 fewer tax roll arrears transfers in 2020 than in 2019. The dollar value transferred will be approximately \$400 K lower than the \$4.2 M transferred in 2019. Furthermore, the number of deferred payment arrangements is down significantly in 2020 versus 2019 – there are approximately 50% fewer active payment arrangements currently versus at the end of 2019. Optional payment arrangements typically arise at the request of customers who are having trouble in paying water and wastewater / storm bills.

Hamilton's relatively low water and wastewater/storm rates combined with the income support programs provided by the senior governments throughout the pandemic, has resulted in no significant changes with respect to ratepayers' ability to pay current water bills despite the ongoing impact of the pandemic.

As outlined in the Executive Summary section of Report FCS20073, the proposed rate impact for the average residential water, wastewater and storm annual bill would be \$32.20 (4.28%).

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. Many 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 2021 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.

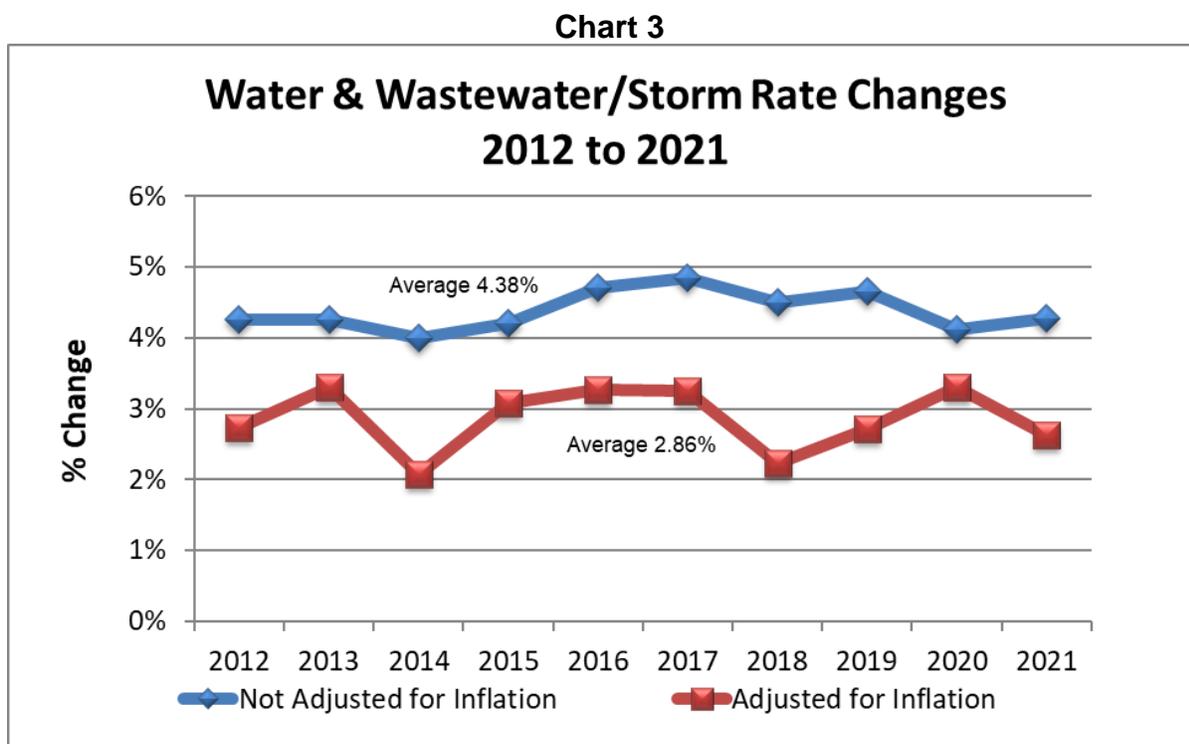
**Table 3
Impact of Recommended Rate Increases on
Water and Wastewater / Storm Rates**

	2020	2021	Increase
Water Fixed Charge (daily) ¹	\$0.37	\$0.38	\$0.01
Consumption Charge Block 1 (0-10 cubic metres / month)	\$0.83	\$0.85	\$0.02
Consumption Charge Block 2 (>10 cubic metres / month)	\$1.64	\$1.70	\$0.06
Wastewater / Storm Fixed Charge (daily) ¹	\$0.39	\$0.42	\$0.03
Treatment Charge Block 1 (0-10 cubic metres / month)	\$0.88	\$0.91	\$0.03
Treatment Charge Block 2 (>10 cubic metres / month)	\$1.75	\$1.82	\$0.07

¹ Rate for a 15-21 mm meter which are installed in most residential homes.

Trends in Combined Rate Changes 2012-2021

Hamilton’s overall average annual combined water and wastewater / storm rate increase is 4.38% before adjusting for inflation during the 10-year period from 2012 to 2021. Accounting for inflation results in the overall average, the annual rate increase over the same period would be 2.86%. Chart 3 shows the trend in Hamilton’s combined water and wastewater / storm rates for the period 2012 to 2021.



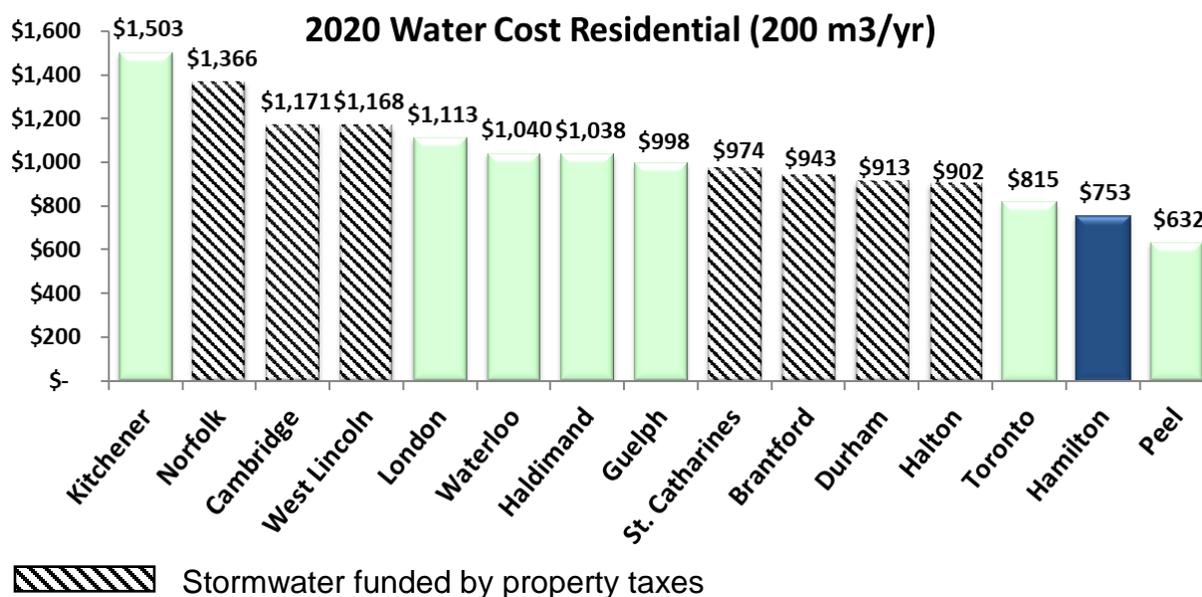
Comparative Rates

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 4.38% 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.

Hamilton’s residential annual water and wastewater / storm bill continues 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 4.

Chart 4



CONSUMPTION AND RATE-GENERATED REVENUES

Metered Water Consumption

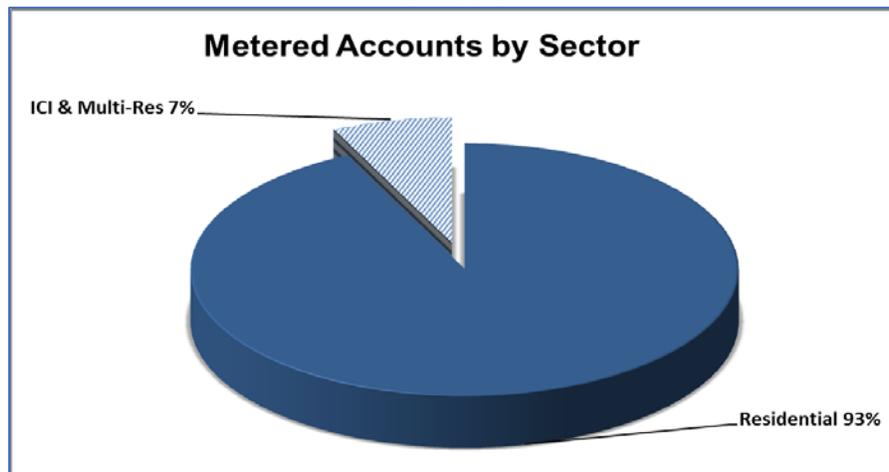
Currently, the City of Hamilton has over 154,000 metered water accounts (see Chart 5). Residential users account for 93% of total metered accounts and approximately 51% of total water consumption. While industrial, commercial, institutional and multi-residential accounts only make up 7% of total metered accounts, Industrial Commercial Institutional (ICI) and multi-residential (multi-res) water consumption accounts for 49% of total consumption (see Chart 6).

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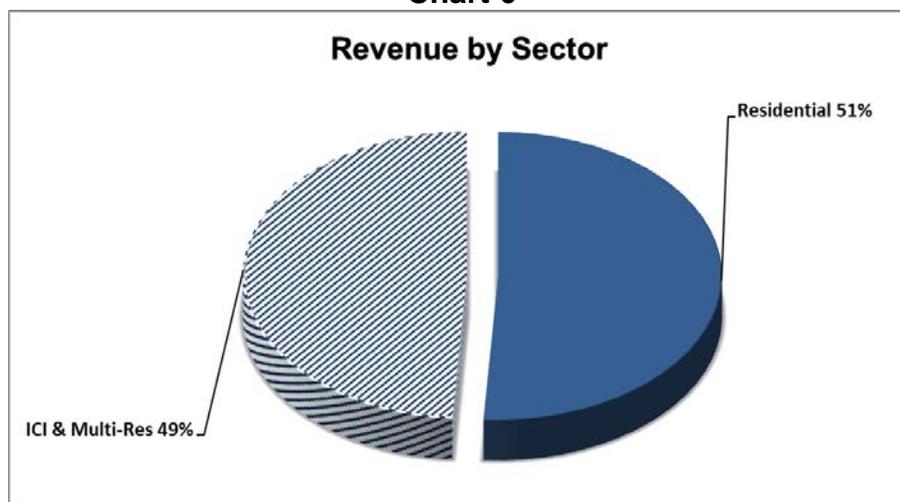
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Chart 5



Revenues associated with consumption represents approximately 94% of the total budgeted Rate revenues of \$229.0 M for 2021.

Chart 6



Total Consumption – 2021 Budget \$229.0 M

Since 2016, Hamilton's total metered annual water consumption (see Chart 7) has remained at approximately 56-59 million cubic metres. The 2020 projected total consumption is just over 58 million cubic metres. The 2021 Budget is approximately 0.2% above the consumption in the 2020 Budget and 2020 Forecast.

Total water consumption forecast over the 10-year period (2021 to 2030) reflects relatively flat consumption demand. This relatively conservative forecast reflects the following:

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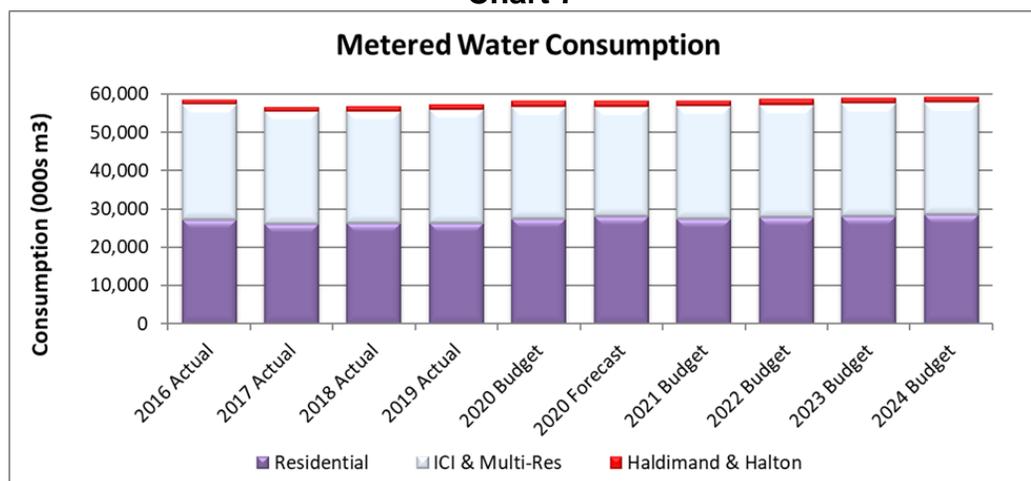
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- Continued uncertainty surrounding growth / decline of consumption
- Conservation impacts:
 - residential toilet consumption = 35% of indoor consumption
 - newer high-efficiency toilets and washers

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.

Chart 7

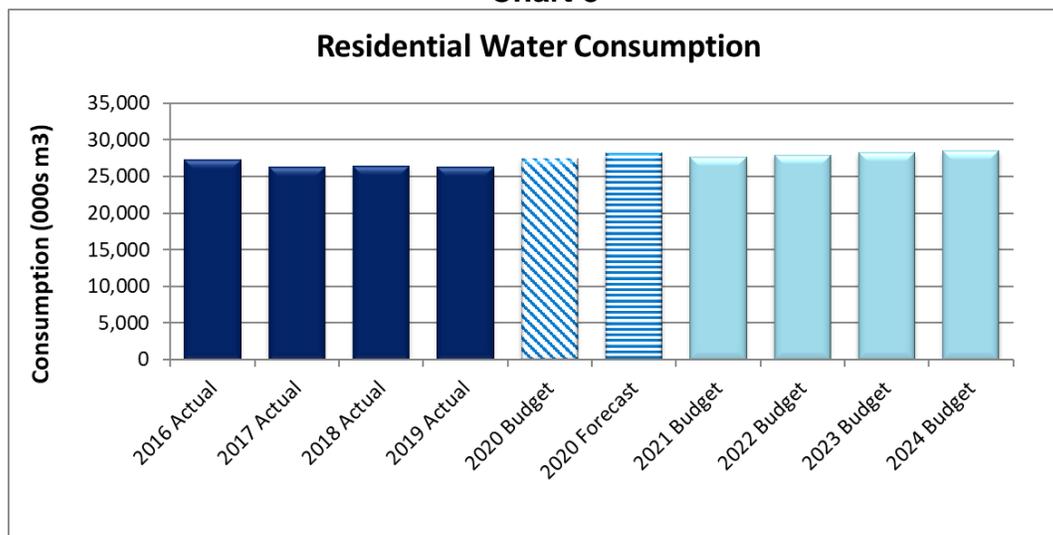


Residential Consumption - 2021 Budget \$107.7 M

Since 2016, residential consumption (see Chart 8) has remained relatively unchanged reflecting an observation that the growth of new customers' consumption has been offset by reduced consumption of existing customers' ongoing conservation efforts associated with fixture / appliance obsolescence such as the installation of water efficient toilets and washer machines. For 2021, staff is recommending that the forecast for average residential consumption remain at 200 m3 to reflect the past several years of consumption.

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. For example, in 2012, the Ontario Building Code changed requirements related to the installation of high-efficiency toilets (4.8L) and expanding the end uses of rainwater and other non-potable water.

Chart 8



Industrial / Commercial / Institutional and Multi-Res Consumption – 2021 Budget \$118.4 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 larger multi-residential customers are implementing water conservation projects. For example, CityHousing Hamilton completed the installation of over 3,000 ultra-high efficiency 3.0 L toilets which yields annual savings of over \$450 K.

In sharp contrast to many neighbouring communities, Hamilton is unique in that 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 business failure.

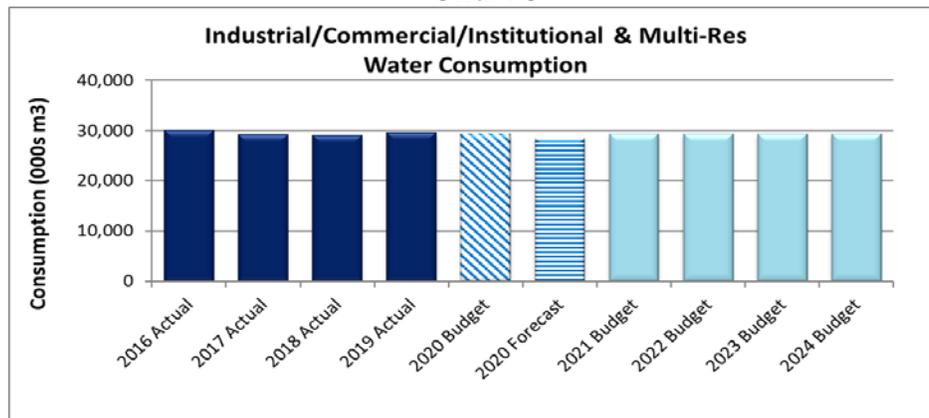
As reflected in Chart 9, water consumption demand is forecast to remain relatively flat for the ICI / Multi-res sector.

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Chart 9



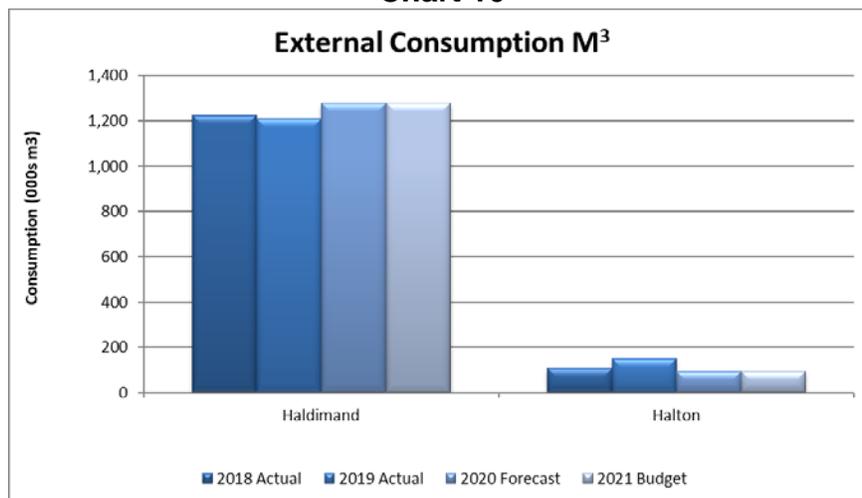
External Consumption – 2021 Budget \$2.9 M

Under long-term arrangements, Hamilton supplies Haldimand County and Halton Region potable water (see Chart 10) 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. There has been some growth over the past few years with new housing developments in Caledonia.

The current water supply agreement for Halton was executed in 2011 for an initial ten-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.

Chart 10



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OTHER REVENUE HIGHLIGHTS

Sewer Discharge Permits – 2021 Budget \$9.4 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 – 2021 Budget \$2.4 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 FCS20073 provides details of the user fees 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 – 2021 Budget \$1.9 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.

2021–2030 Rate Capital Budget

Table 4 summarizes the \$2.53 B capital program and the financing requirements for the 2021–2030 water, wastewater and storm capital budget. Of this amount, \$1.106 B (44%) is for water, \$1.090 B (43%) is for wastewater, and \$0.332 B (13%) is for the storm program. A total of \$789 M or 30% of the 10-year capital program is required in the first three years (2021–2023). Significant projects include the Woodward Wastewater Treatment Plant (WWTP) Upgrade, Airport Lands Trunk Sewer and Battlefield Trunk Sewer Twinning.

The capital program also includes \$674 M for growth infrastructure related to Growth Related Integrated Development Strategy (GRIDS) which will be funded from Development Charges, except for \$90 M in Development Charge (DC) exemptions which the City is legislatively required to fund from rate revenues if Council chooses to discount its DC's or recover less than 100% of growth-related capital costs. Funding of DC exemptions reduces the amount of dollar for dollar funding the City can invest in infrastructure.

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**Table 4
SOURCE OF CAPITAL FINANCING
2021 to 2030 RATE PROGRAM CAPITAL BUDGET
\$(000'S)**

	2021	2022	2023	2024	2025 to 2030	2021 to 2030
WATER						
Capital Program	103,408	121,980	128,281	103,993	647,809	1,105,471
Source of Funding						
Subsidy/Other Revenue	1,681	-	-	-	30	1,711
Development Charges	24,914	31,906	49,647	26,817	113,744	247,028
Reserves & Other Internal Sources	7,015	10,640	10,740	640	3,840	32,875
Contribution from Operating	50,498	62,234	67,894	68,136	516,095	764,857
External Debt	19,300	17,200	-	8,400	14,100	59,000
Total	103,408	121,980	128,281	103,993	647,809	1,105,471
WASTEWATER						
Capital Program	166,628	115,866	69,175	57,795	681,261	1,090,725
Source of Funding						
Subsidy/Other Revenue	22,092	-	-	-	-	22,092
Development Charges	43,863	30,642	14,802	3,817	287,880	381,004
Reserves & Other Internal Sources	14,735	11,000	10,500	10,000	-	46,235
Contribution from Operating	57,238	46,724	42,673	43,978	392,181	582,794
External Debt	28,700	27,500	1,200	-	1,200	58,600
Total	166,628	115,866	69,175	57,795	681,261	1,090,725
STORM SEWERS						
Capital Program	29,875	26,805	27,250	34,385	213,140	331,455
Source of Funding						
Subsidy/Other Revenue	473	75	75	75	450	1,148
Development Charges	8,185	4,000	4,000	4,920	24,920	46,025
Reserves & Other Internal Sources	3,584	3,646	-	-	-	7,230
Contribution from Operating	17,633	19,084	23,175	29,390	186,570	275,852
External Debt	-	-	-	-	1,200	1,200
Total	29,875	26,805	27,250	34,385	213,140	331,455
TOTAL RATE PROGRAM						
Capital Program	299,911	264,651	224,706	196,173	1,542,211	2,527,652
Source of Funding						
Subsidy/Other Revenue	24,246	75	75	75	480	24,951
Development Charges	76,962	66,548	68,449	35,554	426,544	674,057
Reserves & Other Internal Sources	25,334	25,286	21,240	10,640	3,840	86,340
Contribution from Operating	125,369	128,042	133,742	141,504	1,094,847	1,623,504
External Debt	48,000	44,700	1,200	8,400	16,500	118,800
Total	299,911	264,651	224,706	196,173	1,542,211	2,527,652

Chart 11 illustrates the \$2.53 B capital program for the 2021–2030 water, wastewater and storm capital budget.

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Chart 11

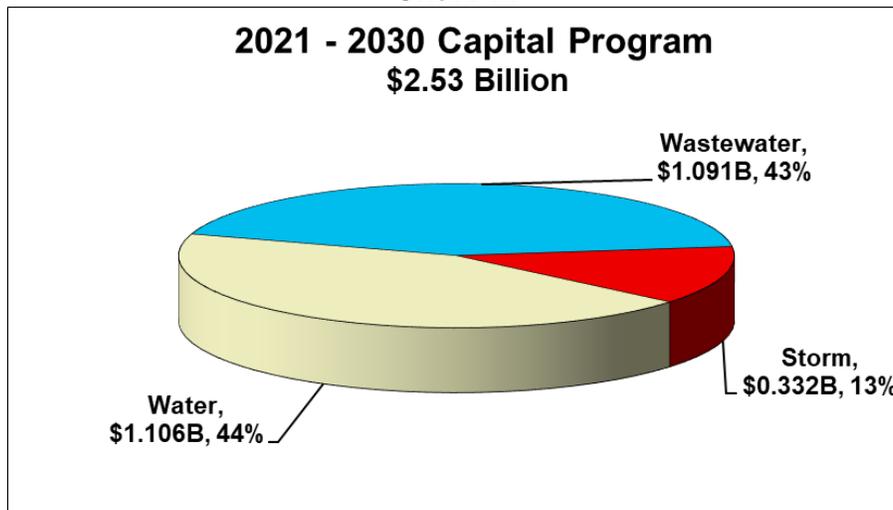
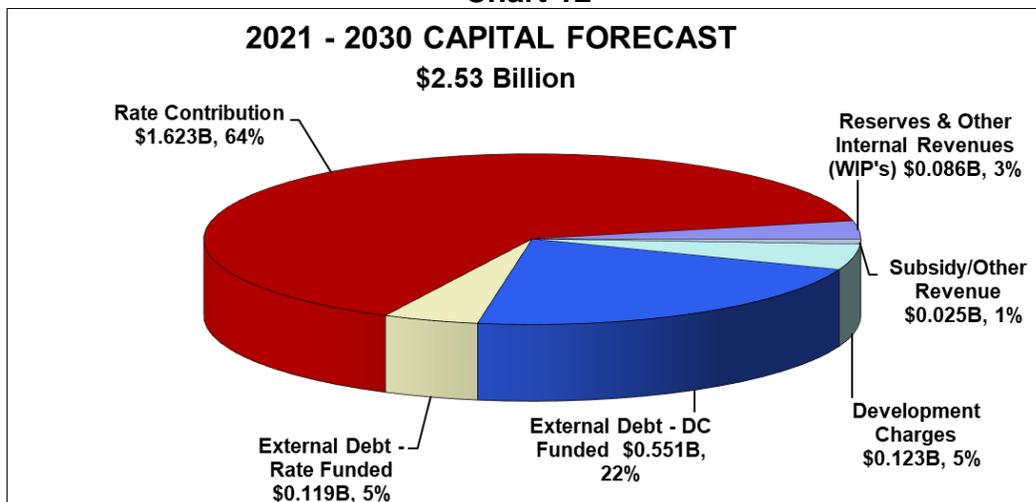


Chart 12 provides the sources of capital financing for the 2021–2030 forecast period. The growth-related infrastructure investment included in the 2021–2030 forecast to accommodate for growth is \$674 M, including \$551 M from DC funded external debt and \$123 M from development charges. Debt charges associated with DC funded debt will be recovered from development charges over the terms of issuance.

The 2021–2030 Capital Forecast includes \$10.1 M in funding from capital work-in-progress (WIP's). The Financing Plan for the 2021-2030 water, wastewater and storm capital program requires a net draw from reserves of \$70.3M, helping to mitigate reliance on rate supported debt for the delivery of capital works.

Chart 12



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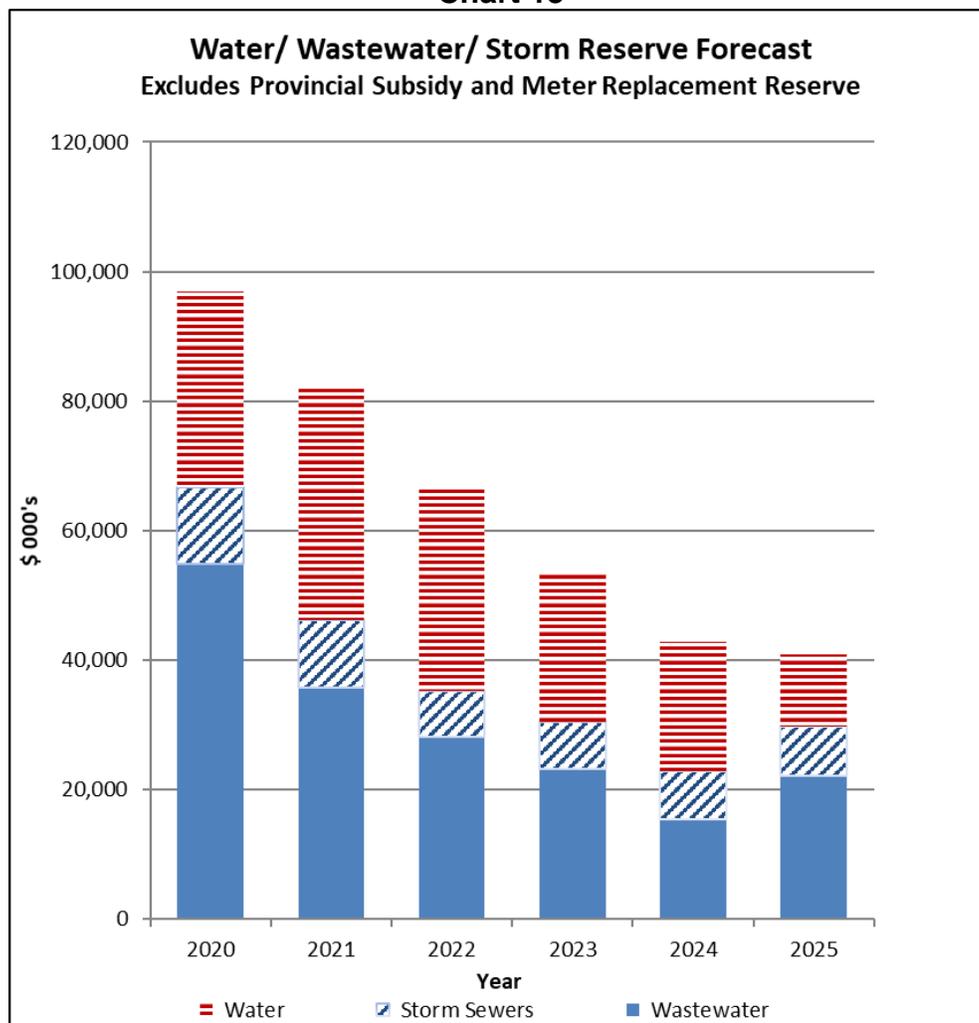
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Rate Reserves

Chart 13 provides the projected reserve balances for the Water, Wastewater and Storm programs. The 2021 Budget Forecast reflects utilizing \$12.2 M in reserve funds to fund the WWTP project and \$0.6 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.

Chart 13



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 current 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.

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The combined reserve balance will decrease from \$97 M at the end of 2020 to \$40 M in 2025 and then stabilize over the remaining years in the 2026 to 2030 forecast under today's capital project forecasts. The decrease in reserves coincides with construction of the Clean Harbour Projects at the WWTP plant of which the City is funding over \$60 M from the Wastewater Reserve from 2018 to 2021. 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 2020 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. The full \$296 M of the total growth component related to Phase Two is in the 2021-2030 Financing Plan. Construction for Phase Two related to expansion is proposed to start in 2026 and be completed in 2028.

The total budget for the Wastewater Treatment Plant upgrade and expansion has not changed in the 2021 budget forecast compared to the 2020 budget forecast. Table 5 provides a summary.

The WWTP expansion project implementation plan has remained unchanged when compared to the 2020 forecast. It is scheduled to begin construction in 2026 with 100% of the cost funded by development charge debt. The levels of debt supported by development charges 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 (2021 – 2024) and adjust the plant expansion project and associated financing plan to align with growth requirements. Staff in both Corporate Services (Finance) and Public Works will closely monitor the need for plant expansion, as well as, the forecasted DC Revenue streams needed to pay for such an expansion to mitigate the risk to the ratepayer.

Table 5

Woodward Wastewater Treatment Plant Project - Gross Capital Forecasts												
(\$ Millions)												
		pre										
	Total	2021	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2021 Budget												
Phase 1 - Clean Harbour	412.0	317.4	69.4	25.2								-
Phase 2 - Expansion	296.4	3.3	1.8	2.5	2.5	3.1	3.1	94.3	92.9	92.9		-
Total WWTP	708.4	320.7	71.2	27.7	2.5	3.1	3.1	94.3	92.9	92.9	-	-

Provincial / Federal Subsidy Programs

In 2010, the City received \$100 M of Provincial infrastructure funding related to the Wastewater Treatment Plant (WWTP) water quality improvement project and in 2013, a \$100 M commitment for Federal funding for the WWTP project from the Green Infrastructure Fund (GIF) with funding provided on a milestone completion basis.

The 2021–2030 Rate Capital Financing Plan incorporates both the Federal and Provincial Subsidies to fund the Clean Harbour project. Of the \$200 M of the Provincial and Federal funding, \$178.1 M has been committed as a funding source in previous years' budgets, leaving \$21.9 M in funding for the Clean Harbour project to be applied in 2021.

In May 2017, the City received approval for 16 projects funded under the Clean Water and Wastewater Fund (CWWF). The CWWF provided communities with vital infrastructure funding to help accelerate short-term investments to support the rehabilitation and modernization of drinking water, wastewater and stormwater infrastructure and the planning and design of future facilities and upgrades to existing systems. The federal and provincial governments provided a maximum of 50% and 25%, respectively, toward the total eligible costs of projects totalling \$43,890,763.

The City received a total CWWF government funding allocation of \$32,918,072 with the City share amounting to \$10,972,691. The CWWF Program project substantial completion timeline has been further extended to September 30, 2021 from an initial extension of March 31, 2020. The original deadline was March 2018.

On April 4, 2019, Infrastructure Canada announced the approval of the \$1.05 M Combined Sewer Overflow Backflow Prevention Project with 40% federal funding of \$420 K from the Disaster Mitigation and Adaptation Fund (DMAF) and the City to fund \$630 K (refer to Report FCS19038). This project to install back-flow devices at four Combined Sewer Overflow (CSO) outlets is to be completed between 2020 to 2025.

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In March 2018, the Federal government with the Ontario government announced the signing of a bilateral agreement that will provide more than \$11.8 B through the Investing in Canada Plan. The Investing in Canada Infrastructure Fund Program (ICIP) is a Federal infrastructure program designed to create long-term economic growth, build inclusive, sustainable and resilient communities and support a low-carbon economy.

There are a number of funding streams to be delivered nationally over the next number of years including \$2.3 B for Green Infrastructure for Ontario. Among the green infrastructure objectives is to ensure communities can provide safe drinking water for their citizens. The 2021–2030 Rate Capital Financing Plan makes no assumptions as to potential funding the City may receive under a future green infrastructure intake.

Addressing Climate Change

In March 2019, Council approved a declaration that “a climate emergency exists that threatens the city, region, province, nation, civilization, humanity and the natural world.”

Prior to the climate change announcement, the Hamilton Water Division had identified approximately \$380M of projects that contribute in a positive way to fighting climate change. In addition, as part of the 2021–2030 Rate Capital Plan, Hamilton Water is requesting approval of projects totaling approximately \$294M that aim to address energy efficiencies and mitigate flooding risks. This brings the total investment in climate change projects to \$674M and includes major projects and studies such as the Greenhill and Summercrest Water Pumping Station Ultimate Upgrades of \$60M and the Flooding and Drainage Master Plan Wastewater and Storm System study budgeted at \$92M.

Projected Water / Wastewater / Storm Debt

The 2021 Water, Wastewater and Storm Budget incorporates a significant reliance on both rate supported debt and growth-related debt supported from development charges over the 10-year forecast period. The forecasted rate supported debt financing for the 10-year period 2021–2030 has not changed from the 2020 Rate Budget.

The forecasted DC supported debt financing has increased by approximately \$18.1 M over the same period, resulting in an overall net increase in forecasted debt financing of \$18.1 M from the forecast in the 2020 Rate Budget. The increase in reliance on DC supported debt is attributable to the increased cost estimate of the Greenhill Pumping Station. The Growth Capital is partially offset with a \$15 M contribution from DC reserves in the 2021 Rate Budget.

SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget (FCS20073) (City Wide) – Page 25 of 31

The 10-year capital program relies on a significant amount of debt financing with the associated debt charges funded from both rates and development charges. The rate supported debt is projected to peak at \$288 M in 2024, compared with the 2020 budget forecasted debt peak of \$297 M in 2023. The debt funded from DC's is projected to peak at \$641 M in 2028, whereas the 2020 budget was \$564 M in 2028.

Table 6 provides the multi-year debt forecast compared to the 2020 Budget forecast.

Table 6

Projected Rate & DC Supported Outstanding Debt											
(\$ Millions)											
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2020 Rate Budget											
Funded from Rates	177	237	291	297	280	266	240	216	191	165	140
Funded from DC's	85	176	235	259	261	286	396	494	564	539	512
Total	262	413	526	556	541	552	636	710	755	704	652
2021 Rate Budget											
Funded from Rates	132	199	258	271	288	273	246	220	194	167	143
Funded from DC's	4	115	227	338	402	403	493	578	641	609	575
Total	136	314	485	609	690	676	739	798	835	776	718
Increase (Decrease)	(126)	(99)	(41)	53	149	124	103	88	80	72	66

Consistent with the 2020 Rate Budget and to more accurately forecast debt levels and the associated debt charges, the major multi-year Wastewater Treatment Plant projects are budgeted based on the projected cash flow of expenditures for the 2021 Rate Capital Budget, versus full commitment-based budgeting.

Chart 14 compares the total outstanding debt (Rate and DC Funded) from the 2020 Budget forecast to the 2021 Budget forecast. The graph illustrates the lower debt requirements for 2020-2022 when compared to the prior year budget forecast. The decrease in debt is due to deferral of major capital growth projects such as the Water Treatment Plant, as well as, funding dollar for dollar growth projects from DC Reserves. The higher debt levels in the later years can be attributed to the timeline of the Wastewater Treatment Plant expansion project which is to be 100% DC debt funded.

Chart 14

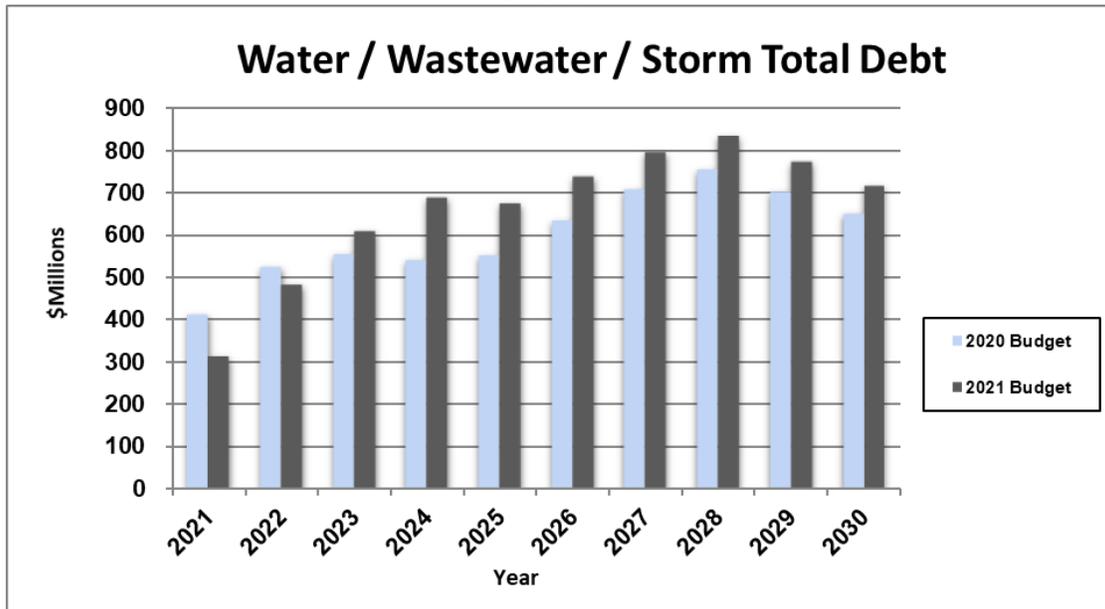


Chart 15 illustrates the projected outstanding debt for the 10-year period (2021–2030) and the funding source of the associated debt charges.

Chart 15

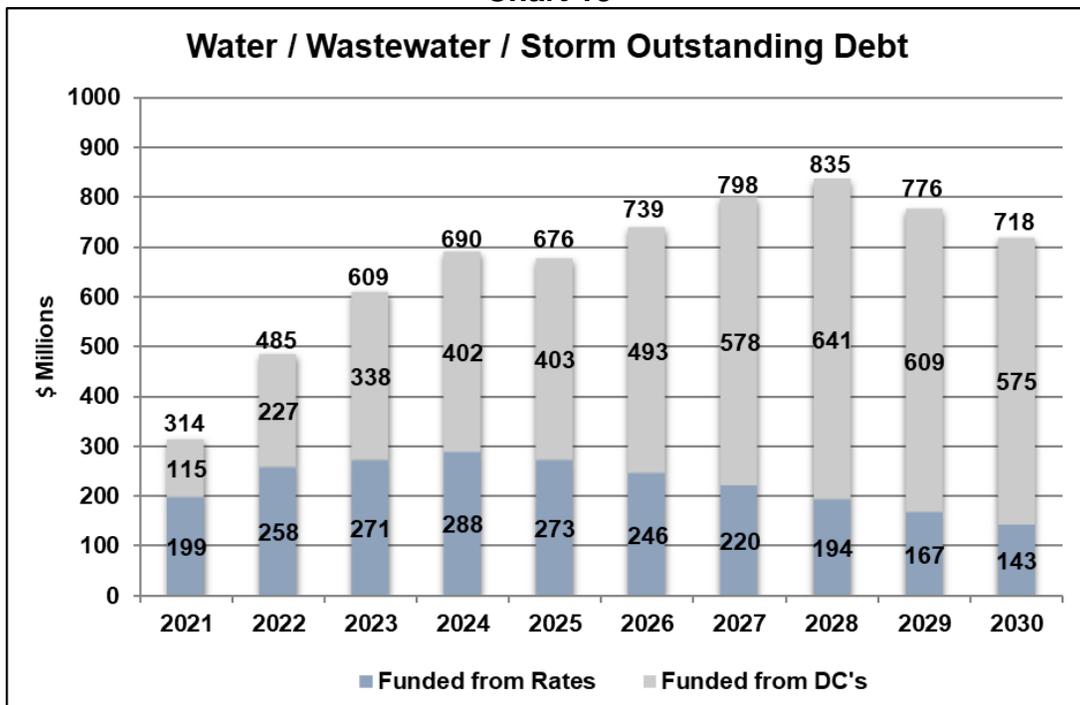
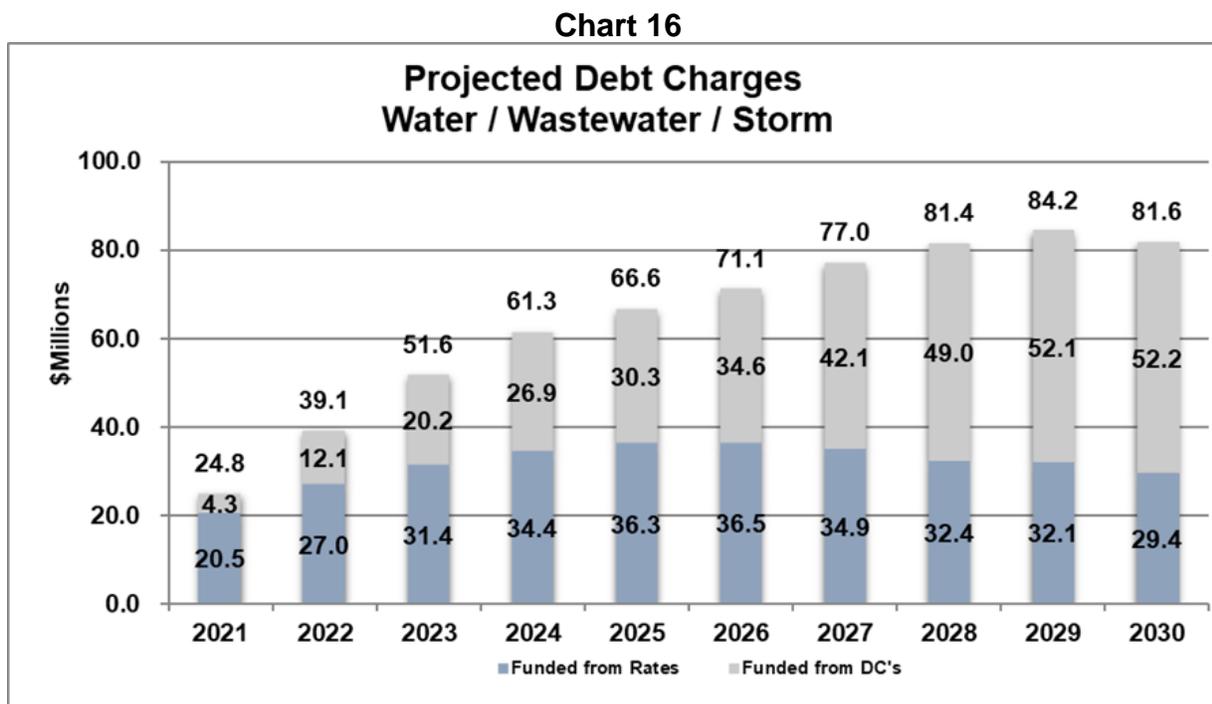


Chart 16 shows the forecasted debt charges funded by water / sewer rates and by Development Charges. In the upcoming years, staff in Corporate Services and in conjunction with staff in Public Works will monitor the forecasted DC Debt charges in comparison to DC Revenue, to mitigate potential risks to the rate payer. Much of this risk lies with the implementation plan of the WWTP expansion project, currently forecasted for construction in years 2026-2028.



Impact of Capital Budget on Operating Budget

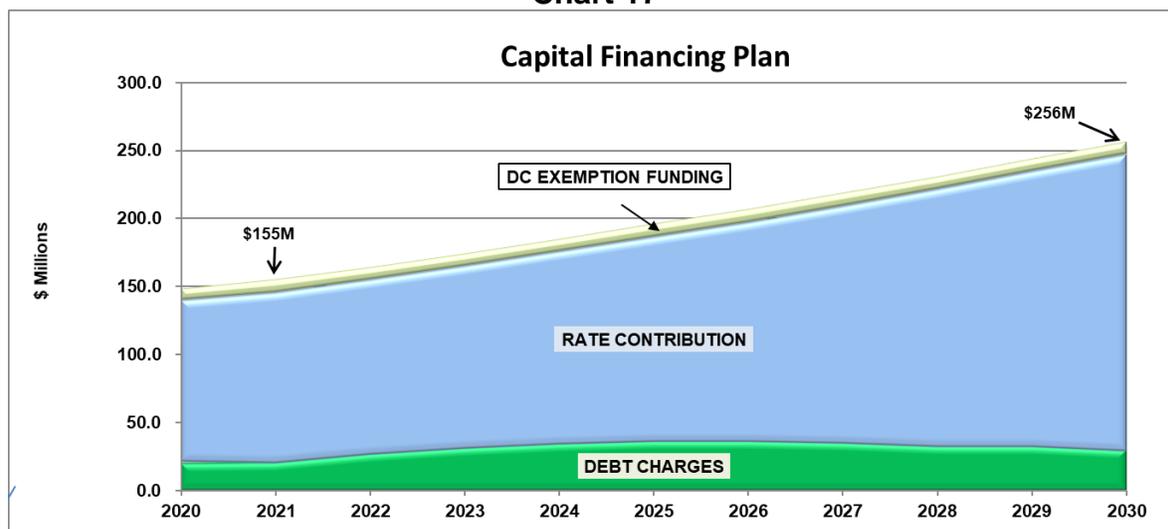
As summarized in Table 7, the 2021 Rate Budget incorporates \$155.0 M capital financing costs which is an increase of \$8.6 M from the 2020 Rate budget. The 2021 budgeted debt charges increase by \$0.9 M, while contribution to capital increased by \$6.7 M when compared to the 2020 budget. DC exemption funding increased by \$1.0 M. The increase in contribution to capital is a result of directing the majority of rate increases to capital investment, as well as, adjustments to the operating budget, freeing up capital investment capacity.

Table 7

WATER, WASTEWATER & STORM IMPACT OF CAPITAL ON OPERATING BUDGET (000's)					
	2020	2021	CHANGE		2021 - 2030
	APPROVED	PROPOSED	\$	%	FORECAST
Debt to be Issued	16,900	48,000	31,100	184.0%	118,800
Debt Charges (Net of DCs)	19,682	20,534	852	4.3%	314,905
Contribution to Capital	118,654	125,369	6,715	5.7%	1,623,504
DC Exemption Funding	8,000	9,000	1,000	12.5%	90,000
Impact on Operating Budget	126,170	154,903	8,567	6.8%	2,028,409

Chart 17 highlights the impact on the operating budget from the Rate Supported Capital program. These impacts are projected to increase from \$155 M in 2021 to \$256 M in 2030. Rate supported debt charges are expected to increase from 8.4% of total revenues in 2021 to 12.4% in 2025 and then decline to 8.1% in 2030.

Chart 17



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 2020 ARL in the amount of \$275,795,317 and is based on 2018 Financial Information Returns.

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Using this 2020 ARL, the City Treasurer has calculated an updated ARL of \$202,330,748, shown in Appendix “T” to Report FCS20073. The 2020 ARL was adjusted for possible debt service charges of \$63,749,201 corresponding to approximately \$684.8 M of debt (including City Housing Hamilton), which has been approved by Council in 2020 and prior years but not yet issued. Further adjustments were made to reflect debt service charges both for prior issued debt discharged since 2018 and for new debt assumed in 2018 and 2020.

According to this calculation, the updated ARL of \$202,330,748, 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 \$2.1 B of additional borrowing which the City could undertake (assuming a 15-year term and 5% interest rate). The related tax and rate impacts would be considered before approving debt within these limits.

ALTERNATIVES FOR CONSIDERATION

Beyond the recommended rate increase, staff can submit for Council consideration changes to this budget submission that would require a review of the 2021 Capital 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 FCS20073 – 2021 Hamilton Water, Wastewater and St Operating Budget – Combined Water, Wastewater and Storm

Appendix “B” to Report FCS20073 – 2021 Hamilton Water Operating Budget – Water

Appendix “C” to Report FCS20073 – 2021 Hamilton Wastewater and Storm Operating Budget – Combined Wastewater and Storm

Appendix “D” to Report FCS20073 – 2021 Hamilton Wastewater and Storm Operating Budget – Wastewater

Appendix “E” to Report FCS20073 – 2021 Hamilton Wastewater and Storm Operating Budget – Storm

Appendix “F” to Report FCS20073 – 2021 Rate Supported Staffing Summary and 2021 Rate Budget – Business Case Summary

Appendix “G” to Report FCS20073 – 2021 Water and Wastewater / Storm Fees and Charges Effective January 1, 2021 – 2021 Private Fire Line Rates – 2021 Proposed User Fees and Charges

Appendix “H” to Report FCS20073 – Source of Capital Financing – 2021 to 2030 Rate Program Capital Budget

Appendix “I” to Report FCS20073 – 2021 to 2030 Water / Wastewater / Storm Capital Financing Plan

Appendix “J” to Report FCS20073 – Source of Capital Financing – 2021 to 2030 Rate Program Capital Budget

Appendix “K” to Report FCS20073 – Water System – 2021 Capital Budget Project List

Appendix “L” to Report FCS20073 – Water System – 2021 to 2030 Capital Budget List

Appendix “M” to Report FCS20073 – Source of Capital Financing – 2021 to 2030 Rate Program Capital Budget

Appendix “N” to Report FCS20073 – Wastewater System – 2021 Capital Budget Project List

Appendix “O” to Report FCS20073 – Wastewater System – 2021 – 2030 Capital Budget List

**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget
(FCS20073) (City Wide) – Page 31 of 31**

Appendix “P” to Report FCS20073 – Source of Capital Financing – 2021 to 2030 Rate Program Capital Budget

Appendix “Q” to Report FCS20073 – Storm Water Management – 2021 Capital Budget Project List

Appendix “R” to Report FCS20073 – Storm Water Management – 2021 to 2030 Capital Budget List

Appendix “S” to Report FCS20073 – 2021 Rate Program Capital Budget Summary

Appendix “T” to Report FCS20073 – City of Hamilton Treasurer’s Updated 2020 Annual Repayment Limit

JS/TT/dt

2021 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

COMBINED WATER, WASTEWATER AND STORM

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>							
Divisional Administration & Support	2,008,040	2,008,040	2,064,490	-	0.0%	56,450	2.8%
Woodward Upgrades	1,108,390	1,108,390	1,441,380	-	0.0%	332,990	30.0%
Customer Service	314,950	267,125	325,250	47,825	15.2%	10,300	3.3%
Outreach & Education	1,239,577	893,362	1,190,590	346,215	27.9%	(48,987)	(4.0%)
Service Co-ordination	3,576,310	3,150,045	3,718,250	426,266	11.9%	141,940	4.0%
Engineering Systems & Data Collection	1,352,480	1,417,350	1,329,480	(64,870)	(4.8%)	(23,000)	(1.7%)
Compliance & Regulations	976,984	976,985	1,008,204	(1)	(0.0%)	31,220	3.2%
Laboratory Services	3,660,204	3,430,977	3,565,050	229,227	6.3%	(95,154)	(2.6%)
Environmental Monitoring & Enforcement	1,892,256	1,892,255	2,213,910	1	0.0%	321,654	17.0%
Water Distribution & Wastewater Collection	20,187,445	23,556,555	22,972,467	(3,369,110)	(16.7%)	2,785,022	13.8%
Plant Operations	24,862,850	23,328,362	26,688,044	1,534,488	6.2%	1,825,194	7.3%
Plant Maintenance	10,669,800	10,318,970	11,527,685	350,830	3.3%	857,885	8.0%
Capital Delivery	1,595,010	1,595,010	1,938,301	-	0.0%	343,291	21.5%
Sustainable Initiatives	1,431,090	1,431,094	1,083,931	(4)	(0.0%)	(347,159)	(24.3%)
Infrastructure Planning & System Design	1,877,476	1,877,475	2,286,976	1	0.0%	409,500	21.8%
Wastewater Abatement Program	1,150,040	1,150,040	1,192,450	-	0.0%	42,410	3.7%
Alectra Utilities Service Contract	5,600,000	5,600,000	5,712,000	-	0.0%	112,000	2.0%
Corporate & Departmental Support Services	6,977,580	6,977,580	7,018,270	-	0.0%	40,690	0.6%
Utilities Arrears Program	500,080	500,080	500,320	-	0.0%	240	0.0%
Sewer Lateral Management Program	300,000	202,250	300,000	97,751	32.6%	-	-
Hamilton Harbour Remedial Action Plan	382,550	382,550	370,964	-	0.0%	(11,586)	(3.0%)
Protective Plumbing Program (3P)	1,000,000	575,000	752,870	425,000	42.5%	(247,130)	(24.7%)
Financial Charges	86,020	86,020	86,020	-	0.0%	-	0.0%
	92,749,132	92,725,514	99,286,901	23,618	0.0%	6,537,769	7.0%
Capital and Reserve Recoveries	(6,029,550)	(6,029,550)	(8,635,161)	-	0.0%	(2,605,611)	43.2%
Sub-Total	86,719,582	86,695,964	90,651,740	23,618	0.0%	3,932,158	4.5%
<u>Capital and Reserve Impacts on Operating</u>							
<u>Contributions to Capital</u>							
Water Quality Initiatives	50,296,000	50,296,000	50,498,000	-	0.0%	202,000	0.4%
Wastewater	52,673,000	52,673,000	57,237,984	-	0.0%	4,564,984	8.7%
Stormwater	15,685,000	15,685,000	17,632,679	-	0.0%	1,947,679	12.4%
Sub-Total Contributions to Capital	118,654,000	118,654,000	125,368,663	-	0.0%	6,714,663	5.7%
<u>Contributions for DC Exemptions</u>							
Water Quality Initiatives	2,240,000	2,240,000	2,520,000	-	0.0%	280,000	12.5%
Wastewater	4,080,000	4,080,000	4,590,000	-	0.0%	510,000	12.5%
Stormwater	1,680,000	1,680,000	1,890,000	-	0.0%	210,000	12.5%
Sub-Total Contributions for DC Exemptions	8,000,000	8,000,000	9,000,000	-	0.0%	1,000,000	12.5%

CITY OF HAMILTON

2021 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

COMBINED WATER, WASTEWATER AND STORM

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
OPERATING EXPENDITURES:							
Capital Debt Charges							
Water Quality Initiatives	8,593,943	8,295,616	9,844,773	298,327	3.5%	1,250,830	14.6%
Wastewater	11,514,374	7,379,737	12,534,242	4,134,637	35.9%	1,019,868	8.9%
Stormwater	3,399,997	2,303,036	2,490,898	1,096,961	32.3%	(909,099)	(26.7%)
DC Debt Charges Recoveries	(3,826,205)	(538,937)	(4,335,428)	(3,287,268)	85.9%	(509,222)	13.3%
Sub-Total Debt Charges	19,682,108	17,439,452	20,534,486	2,242,656	11.4%	852,377	4.3%
Sub-Total Capital Financing	146,336,108	144,093,452	154,903,149	2,242,656	1.5%	8,567,040	5.9%
Reserve Transfers	(43,888)	2,957,724	0	(3,001,612)	6839.2%	43,889	(100.0%)
Sub-Total Capital and Reserve Impacts on Operating	146,292,220	147,051,176	154,903,149	(758,956)	(0.5%)	8,610,929	5.9%
TOTAL EXPENDITURES	233,011,802	233,747,140	245,554,888	(735,338)	(0.3%)	12,543,086	5.4%
REVENUES:							
Rate Revenue							
Residential	102,226,242	105,226,242	107,653,756	3,000,000	2.9%	5,427,514	5.3%
Industrial/Commercial/Institutional/Multi-res	112,557,622	109,557,622	118,417,217	(3,000,000)	(2.7%)	5,859,595	5.2%
Haldimand	2,476,310	2,476,310	2,588,952	-	0.0%	112,642	4.5%
Halton	259,590	259,590	269,837	-	0.0%	10,247	3.9%
Raw Water	125,000	125,000	128,750	-	0.0%	3,750	3.0%
Non-Metered	580,000	580,000	880,000	-	0.0%	300,000	51.7%
Private Fire Lines	1,850,000	1,850,000	1,924,000	-	0.0%	74,000	4.0%
Hauler / 3rd Party Sales	1,225,000	1,225,000	1,400,000	-	0.0%	175,000	14.3%
Overstrength Agreements	2,892,902	3,210,510	3,210,510	317,608	11.0%	317,608	11.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,224,456	417,730	7.2%	417,730	7.2%
Sub-Total Utility Rates	229,999,392	230,734,730	242,697,478	735,338	0.3%	12,698,086	5.5%
Non-Rate Revenue							
Local Improvement Recoveries	275,850	275,850	275,850	-	0.0%	-	-
Permits / Leases / Agreements	1,365,050	1,365,050	1,065,050	-	0.0%	(300,000)	(22.%)
Investment Income	450,000	450,000	450,000	-	0.0%	-	-
General Fees and Recoveries	921,510	921,510	1,066,510	-	0.0%	145,000	15.7%
Sub-Total Non-Rate Revenue	3,012,410	3,012,410	2,857,410	-	0.0%	(155,000)	(5.1%)
TOTAL REVENUES	233,011,802	233,747,140	245,554,888	735,338	0.3%	12,543,086	5.4%
NET EXPENDITURES	-	-	-	-	0.0%	-	0.0%

CITY OF HAMILTON
2021 - 2024 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET
COMBINED WATER, WASTEWATER AND STORM

	2020 RESTATED BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	CHANGE 2021 REQUESTED / 2020 RESTATED BUDGET		CHANGE 2022 PROJECTED / 2021 REQUESTED BUDGET		CHANGE 2023 PROJECTED / 2022 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
OPERATING EXPENDITURES:											
Divisional Administration & Support	2,008,040	2,064,490	2,105,780	2,147,895	2,190,853	56,450	2.8%	41,290	2.0%	42,116	2.0%
Woodward Upgrades	1,108,390	1,441,380	1,470,207	1,499,611	1,529,603	332,990	30.0%	28,828	2.0%	29,404	2.0%
Customer Service	314,950	325,250	331,755	338,390	345,158	10,300	3.3%	6,505	2.0%	6,635	2.0%
Outreach & Education	1,239,577	1,190,590	1,214,402	1,238,690	1,263,464	(48,987)	(4.0%)	23,812	2.0%	24,288	2.0%
Service Co-ordination	3,576,310	3,718,250	3,792,615	3,868,467	3,945,836	141,940	4.0%	74,365	2.0%	75,852	2.0%
Engineering Systems & Data Collection	1,352,480	1,329,480	1,356,070	1,383,191	1,410,855	(23,000)	(1.7%)	26,590	2.0%	27,121	2.0%
Compliance & Regulations	976,984	1,008,204	1,028,368	1,048,935	1,069,914	31,220	3.2%	20,164	2.0%	20,567	2.0%
Laboratory Services	3,660,204	3,565,050	3,636,351	3,709,078	3,783,260	(95,154)	(2.6%)	71,301	2.0%	72,727	2.0%
Environmental Monitoring & Enforcement	1,892,256	2,213,910	2,258,188	2,303,352	2,349,419	321,654	17.0%	44,278	2.0%	45,164	2.0%
Water Distribution & Wastewater Collection	20,187,445	22,972,467	23,431,916	23,900,554	24,378,566	2,785,022	13.8%	459,449	2.0%	468,638	2.0%
Plant Operations	24,862,850	26,688,044	27,221,805	27,766,241	28,321,566	1,825,194	7.3%	533,761	2.0%	544,436	2.0%
Plant Maintenance	10,669,800	11,527,685	11,758,239	11,993,403	12,233,271	857,885	8.0%	230,554	2.0%	235,165	2.0%
Capital Delivery	1,595,010	1,938,301	1,977,067	2,016,608	2,056,940	343,291	21.5%	38,766	2.0%	39,541	2.0%
Sustainable Initiatives	1,431,090	1,083,931	1,105,610	1,127,722	1,150,276	(347,159)	(24.3%)	21,679	2.0%	22,112	2.0%
Infrastructure Planning & System Design	1,877,476	2,286,976	2,332,716	2,379,370	2,426,957	409,500	21.8%	45,740	2.0%	46,654	2.0%
Wastewater Abatement Program	1,150,040	1,192,450	1,216,299	1,240,625	1,265,437	42,410	3.7%	23,849	2.0%	24,326	2.0%
Alectra Utilities Service Contract	5,600,000	5,712,000	5,826,240	5,942,765	6,050,000	112,000	2.0%	114,240	2.0%	116,525	2.0%
Corporate & Departmental Support Services	6,977,580	7,018,270	7,158,635	7,301,808	7,447,844	40,690	0.6%	140,365	2.0%	143,173	2.0%
Utilities Arrears Program	500,080	500,320	510,326	520,533	530,944	240	0.0%	10,006	2.0%	10,207	2.0%
Sewer Lateral Management Program	300,000	300,000	306,000	312,120	318,362	-	0.0%	6,000	2.0%	6,120	2.0%
Hamilton Harbour Remedial Action Plan	382,550	370,964	378,383	385,951	393,670	(11,586)	(3.0%)	7,419	2.0%	7,568	2.0%
Protective Plumbing Program (3P)	1,000,000	752,870	767,927	783,286	798,952	(247,130)	(24.7%)	15,057	2.0%	15,359	2.0%
Financial Charges	86,020	86,020	87,740	89,495	91,285	-	0.0%	1,720	2.0%	1,755	2.0%
	92,749,132	99,286,901	101,272,639	103,298,091	105,352,433	6,537,769	7.0%	1,985,738	2.0%	2,025,453	2.0%
Capital and Reserve Recoveries	(6,029,550)	(8,635,161)	(8,807,864)	(8,984,021)	(9,163,702)	(2,605,611)	43.2%	(172,703)	2.0%	(176,157)	2.0%
Sub-Total	86,719,582	90,651,740	92,464,774	94,314,070	96,188,731	3,932,158	4.5%	1,813,035	2.0%	1,849,295	2.0%
Capital and Reserve Impacts on Operating											
Contributions to Capital											
Water Quality Initiatives	50,296,000	50,498,000	62,233,865	67,894,186	68,135,842	202,000	0.4%	11,735,865	23.2%	5,660,321	9.1%
Wastewater	52,673,000	57,237,984	46,724,000	42,673,000	43,978,000	4,564,984	8.7%	(10,513,984)	(18.4%)	(4,051,000)	(8.7%)
Stormwater	15,685,000	17,632,679	19,084,321	23,175,000	29,390,000	1,947,679	12.4%	1,451,642	8.2%	4,090,679	21.4%
Sub-Total Contributions to Capital	118,654,000	125,368,663	128,042,186	133,742,186	141,503,842	6,714,663	5.7%	2,673,523	2.1%	5,700,000	4.5%
Contributions for DC Exemptions											
Water Quality Initiatives	2,240,000	2,520,000	2,520,000	2,520,000	2,520,000	280,000	12.5%	-	0.0%	-	0.0%
Wastewater	4,080,000	4,590,000	4,590,000	4,590,000	4,590,000	510,000	12.5%	-	0.0%	-	0.0%
Stormwater	1,680,000	1,890,000	1,890,000	1,890,000	1,890,000	210,000	12.5%	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	8,000,000	9,000,000	9,000,000	9,000,000	9,000,000	1,000,000	12.5%	-	0.0%	-	0.0%
Debt Charges											
Water Quality Initiatives	8,593,943	9,844,773	15,213,851	20,743,578	25,478,475	1,250,830	14.6%	5,369,078	54.5%	5,529,728	36.3%
Wastewater	11,514,374	12,534,242	20,704,348	26,710,639	30,660,697	1,019,868	8.9%	8,170,105	65.2%	6,006,292	29.0%
Stormwater	3,399,997	2,490,898	3,185,448	4,157,207	5,127,892	(909,099)	(26.7%)	694,550	27.9%	971,759	30.5%
DC Debt Charges Recoveries	(3,826,205)	(4,335,428)	(12,147,411)	(20,194,201)	(26,916,293)	(509,222)	13.3%	(7,811,983)	180.2%	(8,046,790)	66.2%
Sub-Total Debt Charges	19,682,108	20,534,486	26,956,235	31,417,224	34,350,771	852,377	4.3%	6,421,749	31.3%	4,460,989	16.5%
Sub-Total Capital Financing	146,336,108	154,903,149	163,998,421	174,159,410	184,854,613	8,567,040	5.9%	9,095,272	5.9%	10,160,989	6.2%
Reserve Transfers	(43,888)	0	0	0	0	43,889	(100.0%)	(0)	(68.3%)	0	359.1%
Sub-Total Capital and Reserve Impacts on Operating	146,292,220	154,903,149	163,998,421	174,159,410	184,854,613	8,610,929	5.9%	9,095,272	5.9%	10,160,989	6.2%
TOTAL EXPENDITURES	233,011,802	245,554,888	256,463,196	268,473,480	281,043,345	12,543,086	5.4%	10,908,307	4.4%	12,010,285	4.7%

**CITY OF HAMILTON
2021 - 2024 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET
COMBINED WATER, WASTEWATER AND STORM**

	2020	2021	2022	2023	2024	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	%	2022 PROJECTED / 2021 REQUESTED BUDGET	%	2023 PROJECTED / 2022 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
REVENUES:											
<u>Rate Revenue</u>											
Residential	102,226,242	107,653,756	113,268,028	119,451,372	126,023,132	5,427,514	5.3%	5,614,272	5.2%	6,183,343	5.5%
Industrial/Commercial/Institutional/Multi-res	112,557,622	118,417,217	123,091,680	128,267,805	133,729,076	5,859,595	5.2%	4,674,464	3.9%	5,176,125	4.2%
Haldimand	2,476,310	2,588,952	2,697,501	2,820,792	2,938,075	112,642	4.5%	108,549	4.2%	123,291	4.6%
Halton	259,590	269,837	281,042	293,885	306,728	10,247	3.9%	11,204	4.2%	12,843	4.6%
Raw Water	125,000	128,750	132,613	136,591	140,689	3,750	3.0%	3,863	3.0%	3,978	3.0%
Non-Metered	580,000	880,000	910,000	940,000	970,000	300,000	51.7%	30,000	3.4%	30,000	3.3%
Private Fire Lines	1,850,000	1,924,000	2,000,960	2,080,998	2,165,000	74,000	4.0%	76,960	4.0%	80,038	4.0%
Hauler / 3rd Party Sales	1,225,000	1,400,000	1,442,000	1,485,260	1,515,739	175,000	14.3%	42,000	3.0%	43,260	3.0%
Overstrength Agreements	2,892,902	3,210,510	3,306,825	3,406,030	3,474,151	317,608	11.0%	96,315	3.0%	99,205	3.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,411,190	6,603,525	6,735,596	417,730	7.2%	186,734	3.0%	192,336	3.0%
Sub-Total Utility Rates	229,999,392	242,697,478	253,541,839	265,486,258	277,998,186	12,698,086	5.5%	10,844,360	4.5%	11,944,420	4.7%
<u>Non-Rate Revenue</u>											
Local Improvement Recoveries	275,850	275,850	275,850	275,850	275,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	1,365,050	1,065,050	1,097,002	1,129,912	1,135,809	(300,000)	(22.0%)	31,952	3.0%	32,910	3.0%
Investment Income	450,000	450,000	450,000	450,000	450,000	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	921,510	1,066,510	1,098,505	1,131,460	1,183,500	145,000	15.7%	31,995	3.0%	32,955	3.0%
Sub-Total Non-Rate Revenue	3,012,410	2,857,410	2,921,357	2,987,222	3,045,159	(155,000)	(5.1%)	63,947	2.2%	65,865	2.3%
TOTAL REVENUES	233,011,802	245,554,888	256,463,196	268,473,480	281,043,345	12,543,086	5.4%	10,908,307	4.4%	12,010,285	4.7%
NET EXPENDITURES	(0)	-	-	-	-	(0)	0.0%	0	0.0%	-	0.0%

CITY OF HAMILTON
2021-2030 HAMILTON WATER, WASTEWATER & STORM OPERATING BUDGET
COMBINED WATER, WASTEWATER AND STORM
(\$ 000'S)

	2020 Restated	2021 Requested	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast
OPERATING EXPENDITURES											
OPERATING COSTS	86,720	90,652	92,465	92,714	94,557	96,448	98,377	100,344	102,351	104,398	106,486
TERTIARY TREATMENT	-	-	-	1,600	1,632	1,665	1,698	1,732	1,767	1,802	1,838
TOTAL OPERATING COSTS	86,720	90,652	92,465	94,314	96,189	98,113	100,075	102,076	104,118	106,200	108,324
CAPITAL & RESERVE IMPACTS ON OPERATING											
Contributions to Capital											
Water	50,296	50,498	62,234	67,894	68,136	76,637	80,095	69,139	71,923	105,624	112,677
Wastewater	52,673	57,238	46,724	42,673	43,978	55,168	58,611	63,935	79,927	60,178	74,363
Stormwater	15,685	17,633	19,084	23,175	29,390	18,505	22,235	41,405	37,105	36,515	30,805
Sub-total Contributions to Capital	118,654	125,369	128,042	133,742	141,504	150,310	160,941	174,478	188,956	202,317	217,845
Contributions for DC Exemptions											
Water	2,240	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Wastewater	4,080	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590
Stormwater	1,680	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
Sub-total Contributions to Capital	8,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000
Debt Charges											
Water	8,594	9,845	15,214	20,744	25,478	28,475	29,961	29,956	29,401	29,303	27,855
Wastewater	11,514	12,534	20,704	26,711	30,661	32,493	35,644	41,476	46,421	49,464	48,289
Stormwater	3,400	2,491	3,185	4,157	5,128	5,589	5,541	5,543	5,544	5,494	5,414
DC Debt Charges Recoveries	(3,826)	(4,335)	(12,147)	(20,194)	(26,916)	(30,258)	(34,638)	(42,087)	(48,949)	(52,118)	(52,167)
Sub-total Debt Charges	19,682	20,534	26,956	31,417	34,351	36,299	36,509	34,889	32,417	32,143	29,390
Reserve Transfers	(44)	0	0	0	0	0	0	(0)	0	(0)	(0)
Sub-Total Capital & Reserve Impacts on Operating	146,292	154,903	163,998	174,159	184,855	195,610	206,449	218,367	230,373	243,459	256,236
TOTAL EXPENDITURES	233,012	245,555	256,463	268,473	281,043	293,722	306,524	320,443	334,491	349,659	364,560
REVENUES											
Residential	102,226	107,654	113,268	119,451	126,023	132,710	139,512	146,824	154,262	162,680	171,134
Industrial/Commercial/Institutional/Multi-res	112,558	118,417	123,092	128,268	133,729	139,190	144,652	150,691	156,731	162,902	168,781
Haldimand	2,476	2,589	2,698	2,821	2,938	3,061	3,185	3,328	3,464	3,600	3,718
Halton	260	270	281	294	307	320	332	346	361	375	389
Raw Water	125	129	133	137	141	145	149	154	158	163	168
Non-Metered	580	880	910	940	970	1,000	1,030	1,060	1,090	1,120	1,150
Private Fire Lines	1,850	1,924	2,001	2,081	2,165	2,230	2,297	2,366	2,437	2,510	2,585
Hauler / 3rd Party Sales	1,225	1,400	1,442	1,485	1,516	1,546	1,577	1,609	1,641	1,673	1,707
Overstrength Agreements	2,893	3,211	3,307	3,406	3,474	3,544	3,615	3,687	3,761	3,836	3,912
Sewer Surcharge Agreements	5,807	6,224	6,411	6,604	6,736	6,870	7,008	7,148	7,291	7,437	7,585
Non-Rate Revenue	3,012	2,857	2,921	2,987	3,045	3,106	3,168	3,232	3,296	3,362	3,429
TOTAL REVENUES	233,012	245,555	256,463	268,473	281,043	293,722	306,524	320,443	334,491	349,659	364,560
NET EXPENDITURES	-	-	-	-	-	-	-	-	-	-	-
Rate Increase	4.11%	4.28%	4.05%	4.29%	4.35%	4.16%	4.00%	4.13%	3.97%	4.33%	4.07%
RESIDENTIAL BILL (200m³ p.a.)	\$ 752.60	\$ 784.80	\$ 816.55	\$ 851.55	\$ 888.55	\$ 925.55	\$ 962.55	\$ 1,002.35	\$ 1,042.15	\$ 1,087.25	\$ 1,131.55

2021 HAMILTON WATER OPERATING BUDGET

WATER

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>							
Divisional Administration & Support	907,025	907,025	932,523	-	0.0%	25,498	2.8%
Woodward Upgrades	-	-	-	-	0.0%	-	0.0%
Customer Service	157,800	133,838	162,961	23,962	15.2%	5,161	3.3%
Outreach & Education	633,544	456,594	608,507	176,949	27.9%	(25,037)	(4.0%)
Service Co-ordination	1,759,534	1,549,813	1,829,368	209,721	11.9%	69,834	4.0%
Engineering Systems & Data Collection	676,235	708,669	664,735	(32,435)	(4.8%)	(11,500)	(1.7%)
Compliance & Regulations	488,486	488,487	504,096	(0)	(0.0%)	15,610	3.2%
Laboratory Services	1,175,345	1,101,737	1,144,789	73,608	6.3%	(30,555)	(2.6%)
Environmental Monitoring & Enforcement	-	-	-	-	0.0%	-	0.0%
Water Distribution & Wastewater Collection	14,919,229	17,409,119	16,977,457	(2,489,890)	(16.7%)	2,058,229	13.8%
Plant Operations	12,228,633	11,473,905	13,126,343	754,728	6.2%	897,710	7.3%
Plant Maintenance	5,247,873	5,075,319	5,669,818	172,553	3.3%	421,945	8.0%
Capital Delivery	717,755	717,755	872,235	-	0.0%	154,481	21.5%
Sustainable Initiatives	643,990	643,991	487,768	(2)	(0.0%)	(156,221)	(24.3%)
Infrastructure Planning & System Design	777,946	777,945	947,625	-	0.0%	169,679	21.8%
Wastewater Abatement Program	-	-	-	-	0.0%	-	0.0%
Alectra Utilities Service Contract	2,800,000	2,800,000	2,856,000	-	0.0%	56,000	2.0%
Corporate & Departmental Support Services	3,116,080	3,116,080	3,134,251	-	0.0%	18,172	0.6%
Utilities Arrears Program	250,040	250,040	250,160	-	0.0%	120	0.0%
	46,499,513	47,610,318	50,168,637	(1,110,805)	(2.4%)	3,669,124	7.9%
Capital and Reserve Recoveries	(1,860,163)	(1,860,163)	(2,664,014)	-	0.0%	(803,851)	43.2%
Sub-Total	\$ 44,639,350	\$ 45,750,154	\$ 47,504,623	\$ (1,110,805)	(2.5%)	\$ 2,865,273	6.4%
<u>Capital and Reserve Impacts on Operating</u>							
<u>Contributions to Capital</u>							
Water Quality Initiatives	50,296,000	50,296,000	50,498,000	-	0.0%	202,000	0.4%
Sub-Total Contributions to Capital	50,296,000	50,296,000	50,498,000	-	0.0%	202,000	0.4%
<u>Contributions for DC Exemptions</u>							
Water Quality Initiatives	2,240,000	2,240,000	2,520,000	-	0.0%	280,000	12.5%
Sub-Total Contributions for DC Exemptions	2,240,000	2,240,000	2,520,000	-	0.0%	280,000	12.5%

CITY OF HAMILTON
2021 HAMILTON WATER OPERATING BUDGET
WATER

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
Debt Charges							
Water Quality Initiatives	8,593,943	6,582,511	9,844,773	2,011,432	23.4%	1,250,830	14.6%
DC Debt Charges Recoveries	(976,370)	(24,584)	(1,110,536)	(951,786)	97.5%	(134,166)	13.7%
Sub-Total Debt Charges	7,617,573	6,557,927	8,734,237	1,059,646	13.9%	1,116,663	14.7%
Sub-Total Capital Financing	60,153,573	59,093,927	61,752,237	1,059,646	1.8%	1,598,663	2.7%
Reserve Transfers	7,328,152	7,278,204	8,506,119	49,948	0.7%	1,177,967	16.1%
Sub-Total Cap/Reserve Impacts on Operating	67,481,725	66,372,131	70,258,356	1,109,594	1.6%	2,776,630	4.1%
TOTAL EXPENDITURES	112,121,075	112,122,285	117,762,978	(1,210)	(0.0%)	5,641,903	5.0%
REVENUES:							
Rate Revenue							
Residential	49,887,594	51,351,629	52,204,561	1,464,035	2.9%	2,316,967	4.6%
Industrial/Commercial/Institutional/Multi-res	54,884,021	53,421,197	57,888,030	(1,462,825)	(2.7%)	3,004,008	5.5%
Haldimand	2,476,310	2,476,310	2,588,952	-	0.0%	112,642	4.5%
Halton	259,590	259,590	269,837	-	0.0%	10,247	3.9%
Raw Water	125,000	125,000	128,750	-	0.0%	3,750	3.0%
Non-Metered	290,000	290,000	440,000	-	0.0%	150,000	51.7%
Private Fire Lines	1,850,000	1,850,000	1,924,000	-	0.0%	74,000	4.0%
Hauler / 3rd Party Sales	435,000	435,000	497,143	-	0.0%	62,143	14.3%
Sub-Total Utility Rates	110,207,515	110,208,725	115,941,273	1,210	0.0%	5,733,758	5.2%
Non-Rate Revenue							
Local Improvement Recoveries	10,000	10,000	10,000	-	0.0%	-	0.0%
Permits / Leases / Agreements	850,050	850,050	663,233	-	0.0%	(186,817)	(22.0%)
Investment Income	450,000	450,000	450,000	-	0.0%	-	0.0%
General Fees and Recoveries	603,510	603,510	698,473	-	0.0%	94,963	15.7%
Sub-Total Non-Rate Revenue	1,913,560	1,913,560	1,821,705	-	0.0%	(91,855)	(4.8%)
TOTAL REVENUES	112,121,075	112,122,285	117,762,978	1,210	0.0%	5,641,903	5.0%
NET EXPENDITURES	-	-	-	-	0.0%	-	0.0%

CITY OF HAMILTON
2021 - 2024 HAMILTON WATER OPERATING BUDGET
WATER

	2020	2021	2022	2023	2024	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	%	2022 PROJECTED / 2021 REQUESTED BUDGET	%	2023 PROJECTED / 2022 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
OPERATING EXPENDITURES:											
Divisional Administration & Support	907,025	932,523	951,174	970,197	989,601	25,498	2.8%	18,650	2.0%	19,023	2.0%
Woodward Upgrades	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Customer Service	157,800	162,961	166,220	169,544	172,935	5,161	3.3%	3,259	2.0%	3,324	2.0%
Outreach & Education	633,544	608,507	620,677	633,090	645,752	(25,037)	(4.0%)	12,170	2.0%	12,414	2.0%
Service Co-ordination	1,759,534	1,829,368	1,865,956	1,903,275	1,941,340	69,834	4.0%	36,587	2.0%	37,319	2.0%
Engineering Systems & Data Collection	676,235	664,735	678,030	691,590	705,422	(11,500)	(1.7%)	13,295	2.0%	13,561	2.0%
Compliance & Regulations	488,486	504,096	514,178	524,462	534,951	15,610	3.2%	10,082	2.0%	10,284	2.0%
Laboratory Services	1,175,345	1,144,789	1,167,685	1,191,039	1,214,860	(30,555)	(2.6%)	22,896	2.0%	23,354	2.0%
Environmental Monitoring & Enforcement	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Water Distribution & Wastewater Collection	14,919,229	16,977,457	17,317,006	17,663,347	18,016,614	2,058,229	13.8%	339,549	2.0%	346,340	2.0%
Plant Operations	12,228,633	13,126,343	13,388,870	13,656,648	13,929,781	897,710	7.3%	262,527	2.0%	267,777	2.0%
Plant Maintenance	5,247,873	5,669,818	5,783,214	5,898,879	6,016,856	421,945	8.0%	113,396	2.0%	115,664	2.0%
Capital Delivery	717,755	872,235	889,680	907,474	925,623	154,481	21.5%	17,445	2.0%	17,794	2.0%
Sustainable Initiatives	643,990	487,768	497,524	507,474	517,624	(156,221)	(24.3%)	9,755	2.0%	9,950	2.0%
Infrastructure Planning & System Design	777,946	947,625	966,577	985,909	1,005,627	169,679	21.8%	18,952	2.0%	19,332	2.0%
Wastewater Abatement Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Alectra Utilities Service Contract	2,800,000	2,856,000	2,913,120	2,971,382	3,025,000	56,000	2.0%	57,120	2.0%	58,262	2.0%
Corporate & Departmental Support Services	3,116,080	3,134,251	3,196,936	3,260,875	3,326,093	18,172	0.6%	62,685	2.0%	63,939	2.0%
Utilities Arrears Program	250,040	250,160	255,163	260,266	265,472	120	0.0%	5,003	2.0%	5,103	2.0%
	46,499,513	50,168,637	51,172,010	52,195,450	53,233,549	3,669,124	7.9%	1,003,373	2.0%	1,023,440	2.0%
Capital and Reserve Recoveries	(1,860,163)	(2,664,014)	(2,717,295)	(2,771,641)	(2,827,073)	(803,851)	43.2%	(53,280)	2.0%	(54,346)	2.0%
Sub-Total	44,639,350	47,504,623	48,454,715	49,423,810	50,406,476	2,865,273	6.4%	950,092	2.0%	969,094	2.0%
Capital and Reserve Impacts on Operating											
Contributions to Capital											
Water Quality Initiatives	50,296,000	50,498,000	62,233,865	67,894,186	68,135,842	202,000	0.4%	11,735,865	23.2%	5,660,321	9.1%
Sub-Total Contributions to Capital	50,296,000	50,498,000	62,233,865	67,894,186	68,135,842	202,000	0.4%	11,735,865	23.2%	5,660,321	9.1%
Contributions for DC Exemptions											
Water Quality Initiatives	2,240,000	2,520,000	2,520,000	2,520,000	2,520,000	280,000	12.5%	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	2,240,000	2,520,000	2,520,000	2,520,000	2,520,000	280,000	12.5%	-	0.0%	-	0.0%
Debt Charges											
Water Quality Initiatives	8,593,943	9,844,773	15,213,851	20,743,578	25,478,475	1,250,830	14.6%	5,369,078	54.5%	5,529,728	36.3%
DC Debt Charges Recoveries	(976,370)	(1,110,536)	(3,573,221)	(7,003,781)	(10,011,394)	(134,166)	13.7%	(2,462,685)	221.8%	(3,430,560)	96.0%
Sub-Total Debt Charges	7,617,573	8,734,237	11,640,630	13,739,797	15,467,082	1,116,663	14.7%	2,906,393	33.3%	2,099,168	18.0%
Sub-Total Capital Financing	60,153,573	61,752,237	76,394,495	84,153,983	86,122,924	1,598,663	2.7%	14,642,258	23.7%	7,759,489	10.2%
Reserve Transfers	7,328,152	8,506,119	(2,007,906)	(4,447,766)	(1,063,820)	1,177,967	16.1%	(10,514,025)	(123.6%)	(2,439,860)	121.5%
Sub-Total Capital and Reserve Impacts on Operating	67,481,725	70,258,356	74,386,589	79,706,217	85,059,104	2,776,630	4.1%	4,128,233	5.9%	5,319,629	7.2%
TOTAL EXPENDITURES	112,121,075	117,762,978	122,841,304	129,130,027	135,465,580	5,641,903	5.0%	5,078,326	4.3%	6,288,723	5.1%

CITY OF HAMILTON
2021 - 2024 HAMILTON WATER OPERATING BUDGET
WATER

	2020	2021	2022	2023	2024	CHANGE		CHANGE		CHANGE	
	RESTATED	REQUESTED	PROJECTED	PROJECTED	PROJECTED	2021 REQUESTED /		2022 PROJECTED /		2023 PROJECTED /	
	BUDGET	BUDGET	BUDGET	BUDGET	BUDGET	2020 RESTATED BUDGET	2021 REQUESTED BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
REVENUES:											
Rate Revenue											
Residential	49,887,594	52,204,561	54,744,180	57,971,287	61,255,927	2,316,967	4.6%	2,539,619	4.9%	3,227,107	5.9%
Industrial/Commercial/Institutional/Multi-res	54,884,021	57,888,030	60,155,395	62,924,422	65,693,448	3,004,008	5.5%	2,267,365	3.9%	2,769,027	4.6%
Haldimand	2,476,310	2,588,952	2,697,501	2,820,792	2,938,075	112,642	4.5%	108,549	4.2%	123,291	4.6%
Halton	259,590	269,837	281,042	293,885	306,728	10,247	3.9%	11,204	4.2%	12,843	4.6%
Raw Water	125,000	128,750	132,613	136,591	140,689	3,750	3.0%	3,863	3.0%	3,978	3.0%
Non-Metered	290,000	440,000	455,000	470,000	485,000	150,000	51.7%	15,000	3.4%	15,000	3.3%
Private Fire Lines	1,850,000	1,924,000	2,000,960	2,080,998	2,165,000	74,000	4.0%	76,960	4.0%	80,038	4.0%
Hauler / 3rd Party Sales	435,000	497,143	512,057	527,419	538,741	62,143	14.3%	14,914	3.0%	15,362	3.0%
Sub-Total Utility Rates	110,207,515	115,941,273	120,978,748	127,225,394	133,523,608	5,733,758	5.2%	5,037,474	4.3%	6,246,646	5.2%
Non-Rate Revenue											
Local Improvement Recoveries	10,000	10,000	10,000	10,000	10,000	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	850,050	663,233	683,130	703,624	696,732	(186,817)	(22.0%)	19,897	3.0%	20,494	3.0%
Investment Income	450,000	450,000	450,000	450,000	450,000	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	603,510	698,473	719,427	741,010	785,240	94,963	15.7%	20,954	3.0%	21,583	3.0%
Sub-Total Non-Rate Revenue	1,913,560	1,821,705	1,862,556	1,904,633	1,941,972	(91,855)	(4.8%)	40,851	2.2%	42,077	2.3%
TOTAL REVENUES	112,121,075	117,762,978	122,841,304	129,130,027	135,465,580	5,641,903	5.0%	5,078,326	4.3%	6,288,723	5.1%
NET EXPENDITURES	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%

CITY OF HAMILTON
2021-2030 HAMILTON WATER OPERATING BUDGET
WATER

	2020 Restated	2021 Requested	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast
OPERATING EXPENDITURES											
OPERATING COSTS	44,639	47,505	48,455	49,424	50,406	51,415	52,443	53,492	54,562	55,653	56,766
TOTAL OPERATING COSTS	44,639	47,505	48,455	49,424	50,406	51,415	52,443	53,492	54,562	55,653	56,766
CAPITAL & RESERVE IMPACTS ON OPERATING											
Contributions to Capital											
Water	50,296	50,498	62,234	67,894	68,136	76,637	80,095	69,139	71,923	105,624	112,677
Sub-total Contributions to Capital	50,296	50,498	62,234	67,894	68,136	76,637	80,095	69,139	71,923	105,624	112,677
Contributions for DC Exemptions											
Water	2,240	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Sub-total Contributions to Capital	2,240	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Debt Charges											
Water	8,594	9,845	15,214	20,744	25,478	28,475	29,961	29,956	29,401	29,303	27,855
DC Debt Charges Recoveries	(976)	(1,111)	(3,573)	(7,004)	(10,011)	(11,526)	(12,586)	(13,700)	(14,277)	(14,283)	(14,288)
Sub-total Debt Charges	7,618	8,734	11,641	13,740	15,467	16,949	17,375	16,256	15,124	15,020	13,566
Reserve Transfers											
	7,328	8,506	(2,008)	(4,448)	(1,064)	(5,674)	(4,144)	13,804	18,251	(8,601)	(7,817)
Sub-Total Capital & Reserve Impacts on Operating	67,482	70,258	74,387	79,706	85,059	90,432	95,846	101,720	107,818	114,563	120,947
TOTAL EXPENDITURES	112,121	117,763	122,841	129,130	135,466	141,847	148,288	155,211	162,380	170,216	177,713
REVENUES											
Residential	49,888	52,205	54,744	57,971	61,256	64,598	67,998	71,562	75,374	79,641	83,873
Industrial/Commercial/Institutional/Multi-res	54,884	57,888	60,155	62,924	65,693	68,462	71,232	74,294	77,356	80,627	83,611
Haldimand	2,476	2,589	2,698	2,821	2,938	3,061	3,185	3,328	3,464	3,600	3,718
Halton	260	270	281	294	307	320	332	346	361	375	389
Raw Water	125	129	133	137	141	145	149	154	158	163	168
Non-Metered	290	440	455	470	485	500	515	530	545	560	575
Private Fire Lines	1,850	1,924	2,001	2,081	2,165	2,230	2,297	2,366	2,437	2,510	2,585
Hauler / 3rd Party Sales	435	497	512	527	539	550	561	572	583	595	607
Non-Rate Revenue	1,914	1,822	1,863	1,905	1,942	1,981	2,020	2,061	2,102	2,144	2,187
TOTAL REVENUES	112,121	117,763	122,841	129,130	135,466	141,847	148,288	155,211	162,380	170,216	177,713
NET EXPENDITURES	-	-	-	-	-	-	-	-	-	-	-
Rate Increase	4.5%	3.3%	3.7%	4.7%	4.5%	4.3%	4.1%	4.2%	4.2%	4.5%	4.2%
RESIDENTIAL BILL (200m³ p.a.)	\$ 364.65	\$ 376.70	\$ 390.75	\$ 409.25	\$ 427.75	\$ 446.25	\$ 464.75	\$ 484.05	\$ 504.55	\$ 527.50	\$ 549.65

CITY OF HAMILTON
2021 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
COMBINED WASTEWATER AND STORM

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED ACTUAL / 2020 RESTATED BUDGET	%	2021 REQUESTED / 2020 RESTATED BUDGET	%
	\$	\$	\$	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>							
Divisional Administration & Support	1,101,015	1,101,015	1,131,967	-	0.0%	30,952	2.8%
Woodward Upgrades	1,108,390	1,108,390	1,441,380	-	0.0%	332,990	30.0%
Customer Service	157,150	133,287	162,289	23,863	15.2%	5,139	3.3%
Outreach & Education	606,033	436,768	582,083	169,266	27.9%	(23,950)	(4.0%)
Service Co-ordination	1,816,776	1,600,232	1,888,881	216,544	11.9%	72,106	4.0%
Engineering Systems & Data Collection	676,245	708,681	664,745	(32,435)	(4.8%)	(11,500)	(1.7%)
Compliance & Regulations	488,498	488,498	504,108	(1)	(0.0%)	15,610	3.2%
Laboratory Services	2,484,859	2,329,240	2,420,261	155,619	6.3%	(64,599)	(2.6%)
Environmental Monitoring & Enforcement	1,892,256	1,892,255	2,213,910	1	0.0%	321,654	17.0%
Water Distribution & Wastewater Collection	5,268,216	6,147,436	5,995,009	(879,220)	(16.7%)	726,793	13.8%
Plant Operations	12,634,217	11,854,457	13,561,701	779,760	6.2%	927,484	7.3%
Plant Maintenance	5,421,927	5,243,651	5,857,867	178,277	3.3%	435,940	8.0%
Capital Delivery	877,256	877,256	1,066,066	-	0.0%	188,810	21.5%
Sustainable Initiatives	787,100	787,103	596,163	(2)	(0.0%)	(190,938)	(24.3%)
Infrastructure Planning & System Design	1,099,530	1,099,530	1,339,351	1	0.0%	239,821	21.8%
Wastewater Abatement Program	1,150,040	1,150,040	1,192,450	-	0.0%	42,410	3.7%
Alectra Utilities Service Contract	2,800,000	2,800,000	2,856,000	-	0.0%	56,000	2.0%
Corporate & Departmental Support Services	3,861,500	3,861,500	3,884,019	-	0.0%	22,518	0.6%
Utilities Arrears Program	250,040	250,040	250,160	-	0.0%	120	0.0%
Sewer Lateral Management Program	300,000	202,250	300,000	97,751	32.6%	-	0.0%
Hamilton Harbour Remedial Action Plan	382,550	382,550	370,964	-	0.0%	(11,586)	(3.0%)
Protective Plumbing Program (3P)	1,000,000	575,000	752,870	425,000	42.5%	(247,130)	(24.7%)
Financial Charges	86,020	86,020	86,020	-	0.0%	-	0.0%
	46,249,619	45,115,196	49,118,263	1,134,423	2.5%	2,868,644	6.2%
Capital and Reserve Recoveries	(4,169,387)	(4,169,387)	(5,971,146)	-	0.0%	(1,801,760)	43.2%
Sub-Total	42,080,232	40,945,810	43,147,117	1,134,423	2.7%	1,066,885	2.5%
<u>Capital and Reserve Impacts on Operating</u>							
<u>Contributions to Capital</u>							
Wastewater	52,673,000	52,673,000	57,237,984	-	0.0%	4,564,984	8.7%
Stormwater	15,685,000	15,685,000	17,632,679	-	0.0%	1,947,679	12.4%
Sub-Total Contributions to Capital	68,358,000	68,358,000	74,870,663	-	0.0%	6,512,663	9.5%
<u>Contributions for DC Exemptions</u>							
Wastewater	4,080,000	4,080,000	4,590,000	-	0.0%	510,000	12.5%
Stormwater	1,680,000	1,680,000	1,890,000	-	0.0%	210,000	12.5%
Sub-Total Contributions for DC Exemptions	5,760,000	5,760,000	6,480,000	-	0.0%	720,000	12.5%

CITY OF HAMILTON
2021 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
COMBINED WASTEWATER AND STORM

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL %	2021 REQUESTED / 2020 RESTATED BUDGET	%
	\$	\$	\$	\$	%	\$	%
<u>Debt Charges</u>							
Wastewater	11,514,374	7,012,631	12,534,242	4,501,743	39.1%	1,019,868	8.9%
Stormwater	3,399,997	651,022	2,490,898	2,748,975	80.9%	(909,099)	(26.7%)
DC Debt Charges Recoveries	(3,490,867)	(138,256)	(3,224,892)	(3,352,611)	96.0%	265,976	(7.6%)
Sub-Total Debt Charges	11,423,503	7,525,397	11,800,249	3,898,106	34.1%	376,745	3.3%
Sub-Total Capital Financing	85,541,503	81,643,397	93,150,912	3,898,106	4.6%	7,609,408	8.9%
Reserve Transfers	(6,731,009)	(964,352)	(8,506,119)	(5,766,657)	85.7%	(1,775,110)	26.4%
Sub-Total Capital and Reserve Impacts on Operating	78,810,495	80,679,045	84,644,793	(1,868,550)	(2.4%)	5,834,299	7.4%
TOTAL EXPENDITURES	120,890,727	121,624,855	127,791,910	(734,128)	(0.6%)	6,901,183	5.7%
<u>REVENUES:</u>							
<u>Rate Revenue</u>							
Residential	52,338,648	53,874,613	55,449,195	1,535,965	2.9%	3,110,547	5.9%
Industrial/Commercial/Institutional/Multi-res	57,673,601	56,136,425	60,529,187	(1,537,175)	(2.7%)	2,855,586	5.0%
Non-Metered	290,000	290,000	440,000	-	0.0%	150,000	51.7%
Hauler / 3rd Party Sales	790,000	790,000	902,857	-	0.0%	112,857	14.3%
Overstrength Agreements	2,892,902	3,210,510	3,210,510	317,608	11.0%	317,608	11.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,224,456	417,730	7.2%	417,730	7.2%
Sub-Total Utility Rates	119,791,877	120,526,005	126,756,205	734,128	0.6%	6,964,328	5.8%
<u>Non-Rate Revenue</u>							
Local Improvement Recoveries	265,850	265,850	265,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	515,000	515,000	401,817	-	0.0%	(113,183)	(22.%)
General Fees and Recoveries	318,000	318,000	368,037	-	0.0%	50,037	15.7%
Sub-Total Non-Rate Revenue	1,098,850	1,098,850	1,035,705	-	0.0%	(63,145)	(5.7%)
TOTAL REVENUES	120,890,727	121,624,855	127,791,910	734,128	0.6%	6,901,183	5.7%
NET EXPENDITURES	-	-	-	-	0.0%	-	0.0%

CITY OF HAMILTON
2021 - 2024 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
COMBINED WASTEWATER AND STORM

	2020 RESTATE D BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	CHANGE 2021 REQUESTED / 2020 RESTATE D BUDGET	CHANGE 2022 PROJECTED / 2021 REQUESTED BUDGET	CHANGE 2023 PROJECTED / 2022 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
OPERATING EXPENDITURES:											
Divisional Administration & Support	1,101,015	1,131,967	1,154,606	1,177,698	1,201,252	30,952	2.8%	22,639	2.0%	23,092	2.0%
Woodward Upgrades	1,108,390	1,441,380	1,470,207	1,499,611	1,529,603	332,990	30.0%	28,828	2.0%	29,404	2.0%
Customer Service	157,150	162,289	165,535	168,846	172,223	5,139	3.3%	3,246	2.0%	3,311	2.0%
Outreach & Education	606,033	582,083	593,725	605,600	617,712	(23,950)	(4.0%)	11,642	2.0%	11,875	2.0%
Service Co-ordination	1,816,776	1,888,881	1,926,659	1,965,192	2,004,496	72,106	4.0%	37,778	2.0%	38,533	2.0%
Engineering Systems & Data Collection	676,245	664,745	678,040	691,601	705,433	(11,500)	(1.7%)	13,295	2.0%	13,561	2.0%
Compliance & Regulations	488,498	504,108	514,190	524,474	534,963	15,610	3.2%	10,082	2.0%	10,284	2.0%
Laboratory Services	2,484,859	2,420,261	2,468,666	2,518,039	2,568,400	(64,599)	(2.6%)	48,405	2.0%	49,373	2.0%
Environmental Monitoring & Enforcement	1,892,256	2,213,910	2,258,188	2,303,352	2,349,419	321,654	17.0%	44,278	2.0%	45,164	2.0%
Water Distribution & Wastewater Collection	5,268,216	5,995,009	6,114,910	6,237,208	6,361,952	726,793	13.8%	119,900	2.0%	122,298	2.0%
Plant Operations	12,634,217	13,561,701	13,832,935	14,109,593	14,391,785	927,484	7.3%	271,234	2.0%	276,659	2.0%
Plant Maintenance	5,421,927	5,857,867	5,975,024	6,094,525	6,216,415	435,940	8.0%	117,157	2.0%	119,500	2.0%
Capital Delivery	877,256	1,066,066	1,087,387	1,109,135	1,131,317	188,810	21.5%	21,321	2.0%	21,748	2.0%
Sustainable Initiatives	787,100	596,163	608,086	620,248	632,653	(190,938)	(24.3%)	11,923	2.0%	12,162	2.0%
Infrastructure Planning & System Design	1,099,530	1,339,351	1,366,138	1,393,461	1,421,330	239,821	21.8%	26,787	2.0%	27,323	2.0%
Wastewater Abatement Program	1,150,040	1,192,450	1,216,299	1,240,625	1,265,437	42,410	3.7%	23,849	2.0%	24,326	2.0%
Alectra Utilities Service Contract	2,800,000	2,856,000	2,913,120	2,971,382	3,025,000	56,000	2.0%	57,120	2.0%	58,262	2.0%
Corporate & Departmental Support Services	3,861,500	3,884,019	3,961,699	4,040,933	4,121,752	22,518	0.6%	77,680	2.0%	79,234	2.0%
Utilities Arrears Program	250,040	250,160	255,163	260,266	265,472	120	0.0%	5,003	2.0%	5,103	2.0%
Sewer Lateral Management Program	300,000	300,000	306,000	312,120	318,362	-	0.0%	6,000	2.0%	6,120	2.0%
Hamilton Harbour Remedial Action Plan	382,550	370,964	378,383	385,951	393,670	(11,586)	(3.0%)	7,419	2.0%	7,568	2.0%
Protective Plumbing Program (3P)	1,000,000	752,870	767,927	783,286	798,952	(247,130)	(24.7%)	15,057	2.0%	15,359	2.0%
Financial Charges	86,020	86,020	87,740	89,495	91,285	-	0.0%	1,720	2.0%	1,755	2.0%
	46,249,619	49,118,263	50,100,629	51,102,641	52,118,884	2,868,644	6.2%	982,365	2.0%	1,002,013	2.0%
Capital and Reserve Recoveries	(4,169,387)	(5,971,146)	(6,090,569)	(6,212,381)	(6,336,628)	(1,801,760)	43.2%	(119,423)	2.0%	(121,811)	2.0%
Sub-Total	42,080,232	43,147,117	44,010,059	44,890,260	45,782,256	1,066,885	2.5%	862,942	2.0%	880,201	2.0%
Capital and Reserve Impacts on Operating											
Contributions to Capital											
Wastewater	52,673,000	57,237,984	46,724,000	42,673,000	43,978,000	4,564,984	8.7%	(10,513,984)	(18.4%)	(4,051,000)	(8.7%)
Stormwater	15,685,000	17,632,679	19,084,321	23,175,000	29,390,000	1,947,679	12.4%	1,451,642	8.2%	4,090,679	21.4%
Sub-Total Contributions to Capital	68,358,000	74,870,663	65,808,321	65,848,000	73,368,000	6,512,663	9.5%	(9,062,342)	(12.1%)	39,679	0.1%
Contributions for DC Exemptions											
Wastewater	4,080,000	4,590,000	4,590,000	4,590,000	4,590,000	510,000	12.5%	-	0.0%	-	0.0%
Stormwater	1,680,000	1,890,000	1,890,000	1,890,000	1,890,000	210,000	12.5%	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	5,760,000	6,480,000	6,480,000	6,480,000	6,480,000	720,000	12.5%	-	0.0%	-	0.0%
Debt Charges											
Wastewater	11,514,374	12,534,242	20,704,348	26,710,639	30,660,697	1,019,868	8.9%	8,170,105	65.2%	6,006,292	29.0%
Stormwater	3,399,997	2,490,898	3,185,448	4,157,207	5,127,892	(909,099)	(26.7%)	694,550	27.9%	971,759	30.5%
DC Debt Charges Recoveries	(3,490,867)	(3,224,892)	(8,574,190)	(13,190,420)	(16,904,899)	265,976	(7.6%)	(5,349,298)	165.9%	(4,616,230)	53.8%
Sub-Total Debt Charges	11,423,503	11,800,249	15,315,605	17,677,427	18,883,689	376,745	3.3%	3,515,357	29.8%	2,361,821	15.4%
Sub-Total Capital Financing	85,541,503	93,150,912	87,603,926	90,005,427	98,731,689	7,609,408	8.9%	(5,546,985)	(6.0%)	2,401,500	2.7%
Reserve Transfers	(6,731,009)	(8,506,119)	2,007,906	4,447,766	1,063,820	(1,775,110)	26.4%	10,514,025	(123.6%)	2,439,860	121.5%
Sub-Total Capital and Reserve Impacts on Operating	78,810,495	84,644,793	89,611,832	94,453,193	99,795,509	5,834,299	7.4%	4,967,039	5.9%	4,841,361	5.4%

CITY OF HAMILTON
2021 - 2024 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
COMBINED WASTEWATER AND STORM

	2020 RESTATED BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	CHANGE 2021 REQUESTED / 2020 RESTATED BUDGET		CHANGE 2022 PROJECTED / 2021 REQUESTED BUDGET		CHANGE 2023 PROJECTED / 2022 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
REVENUES:											
Rate Revenue											
Residential	52,338,648	55,449,195	58,523,848	61,480,084	64,767,205	3,110,547	5.9%	3,074,653	5.5%	2,956,236	5.1%
Industrial/Commercial/Institutional/Multi-res	57,673,601	60,529,187	62,936,285	65,343,383	68,035,628	2,855,586	5.0%	2,407,098	4.0%	2,407,098	3.8%
Haldimand	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Halton	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Non-Metered	290,000	440,000	455,000	470,000	485,000	150,000	51.7%	15,000	3.4%	15,000	3.3%
Hauler / 3rd Party Sales	790,000	902,857	929,943	957,841	976,998	112,857	14.3%	27,086	3.0%	27,898	3.0%
Overstrength Agreements	2,892,902	3,210,510	3,306,825	3,406,030	3,474,151	317,608	11.0%	96,315	3.0%	99,205	3.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,411,190	6,603,525	6,735,596	417,730	7.2%	186,734	3.0%	192,336	3.0%
Sub-Total Utility Rates	119,791,877	126,756,205	132,563,091	138,260,864	144,474,578	6,964,328	5.8%	5,806,886	4.6%	5,697,773	4.3%
Non-Rate Revenue											
Local Improvement Recoveries	265,850	265,850	265,850	265,850	265,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	515,000	401,817	413,872	426,288	439,077	(113,183)	(22.0%)	12,055	3.0%	12,416	3.0%
General Fees and Recoveries	318,000	368,037	379,079	390,451	398,260	50,037	15.7%	11,041	3.0%	11,372	3.0%
Sub-Total Non-Rate Revenue	1,098,850	1,035,705	1,058,800	1,082,589	1,103,187	(63,145)	(5.7%)	23,096	2.2%	23,789	2.2%
TOTAL REVENUES	120,890,727	127,791,910	133,621,892	139,343,453	145,577,765	6,901,183	5.7%	5,829,982	4.6%	5,721,562	4.3%
NET EXPENDITURES	-	-	-	-	-	-	0.0%	-	0.0%	0	0.0%

CITY OF HAMILTON
2021-2030 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
COMBINED WASTEWATER AND STORM
(\$ 000'S)

	2020 Restated	2021 Requested	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast
OPERATING EXPENDITURES											
OPERATING COSTS	42,080	43,147	44,010	43,290	44,150	45,033	45,934	46,853	47,790	48,745	49,720
TERTIARY TREATMENT	-	-	-	1,600	1,632	1,665	1,698	1,732	1,767	1,802	1,838
TOTAL OPERATING COSTS	42,080	43,147	44,010	44,890	45,782	46,698	47,632	48,584	49,556	50,547	51,558
CAPITAL & RESERVE IMPACTS ON OPERATING											
Contributions to Capital											
Wastewater	52,673	57,238	46,724	42,673	43,978	55,168	58,611	63,935	79,927	60,178	74,363
Stormwater	15,685	17,633	19,084	23,175	29,390	18,505	22,235	41,405	37,105	36,515	30,805
Sub-total Contributions to Capital	68,358	74,871	65,808	65,848	73,368	73,673	80,846	105,340	117,032	96,693	105,168
Contributions for DC Exemptions											
Wastewater	4,080	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590
Stormwater	1,680	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
Sub-total Contributions to Capital	5,760	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480
Debt Charges											
Wastewater	11,514	12,534	20,704	26,711	30,661	32,493	35,644	41,476	46,421	49,464	48,289
Stormwater	3,400	2,491	3,185	4,157	5,128	5,589	5,541	5,543	5,544	5,494	5,414
DC Debt Charges Recoveries	(3,491)	(3,225)	(8,574)	(13,190)	(16,905)	(18,731)	(22,052)	(28,387)	(34,672)	(37,836)	(37,879)
Sub-total Debt Charges	11,424	11,800	15,316	17,677	18,884	19,350	19,134	18,632	17,293	17,122	15,824
Reserve Transfers	(6,731)	(8,506)	2,008	4,448	1,064	5,674	4,144	(13,804)	(18,251)	8,601	7,817
Sub-Total Capital & Reserve Impacts on Operating	78,810	84,645	89,612	94,453	99,796	105,178	110,604	116,647	122,555	128,896	135,289
TOTAL EXPENDITURES	120,891	127,792	133,622	139,343	145,578	151,875	158,236	165,232	172,111	179,444	186,847
REVENUES											
Residential	52,339	55,449	58,524	61,480	64,767	68,112	71,514	75,262	78,888	83,039	87,261
Industrial/Commercial/Institutional/Multi-res	57,674	60,529	62,936	65,343	68,036	70,728	73,420	76,398	79,375	82,276	85,170
Non-Metered	290	440	455	470	485	500	515	530	545	560	575
Hauler / 3rd Party Sales	790	903	930	958	977	997	1,016	1,037	1,058	1,079	1,100
Overstrength Agreements	2,893	3,211	3,307	3,406	3,474	3,544	3,615	3,687	3,761	3,836	3,912
Sewer Surcharge Agreements	5,807	6,224	6,411	6,604	6,736	6,870	7,008	7,148	7,291	7,437	7,585
Non-Rate Revenue	1,099	1,036	1,059	1,083	1,103	1,125	1,148	1,171	1,194	1,218	1,242
TOTAL REVENUES	120,891	127,792	133,622	139,343	145,578	151,875	158,236	165,232	172,111	179,444	186,847
NET EXPENDITURES	-	-	-	-	-	-	-	-	-	-	-
Rate Increase	3.8%	5.2%	4.3%	3.9%	4.2%	4.0%	3.9%	4.1%	3.7%	4.1%	4.0%
RESIDENTIAL BILL (200m³ p.a.)	\$ 387.95	\$ 408.10	\$ 425.80	\$ 442.30	\$ 460.80	\$ 479.30	\$ 497.80	\$ 518.30	\$ 537.60	\$ 559.75	\$ 581.90

CITY OF HAMILTON
2021 HAMILTON WASTEWATER AND STORM OPERATING BUDGET

WASTEWATER

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>							
<u>Environmental Services</u>							
Divisional Administration & Support	900,865	900,865	926,190	-	0.0%	25,325	2.8%
Woodward Upgrades	1,108,390	1,108,390	1,441,380	-	0.0%	332,990	30.0%
Customer Service	125,970	106,841	130,089	19,128	15.2%	4,120	3.3%
Outreach & Education	484,825	349,413	465,665	135,412	27.9%	(19,160)	(4.%)
Service Co-ordination	1,094,374	963,934	1,137,808	130,440	11.9%	43,434	4.0%
Engineering Systems & Data Collection	540,994	566,942	531,794	(25,948)	(4.8%)	(9,200)	(1.7%)
Compliance & Regulations	465,083	465,083	479,944	-	0.0%	14,862	3.2%
Laboratory Services	2,343,831	2,197,044	2,282,899	146,787	6.3%	(60,932)	(2.6%)
Environmental Monitoring & Enforcement	1,823,759	1,823,758	2,133,769	1	0.0%	310,010	17.0%
Water Distribution & Wastewater Collection	4,763,281	5,558,231	5,420,414	(794,950)	(16.7%)	657,133	13.8%
Plant Operations	12,141,813	11,392,443	13,033,149	749,370	6.2%	891,336	7.3%
Plant Maintenance	5,210,614	5,039,286	5,629,563	171,328	3.3%	418,949	8.0%
Capital Delivery	717,755	717,755	872,235	-	0.0%	154,481	21.5%
Sustainable Initiatives	643,990	643,991	487,768	(2)	(0.0%)	(156,221)	(24.3%)
Infrastructure Planning & System Design	899,608	899,608	1,095,824	-	0.0%	196,215	21.8%
Wastewater Abatement Program	1,150,040	1,150,040	1,192,450	-	0.0%	42,410	3.7%
Alectra Utilities Service Contract	2,800,000	2,800,000	2,856,000	-	0.0%	56,000	2.0%
Corporate & Departmental Support Services	3,394,758	3,394,758	3,414,555	-	0.0%	19,797	0.6%
Utilities Arrears Program	250,040	250,040	250,160	-	0.0%	120	0.0%
Sewer Lateral Management Program	300,000	202,250	300,000	97,751	32.6%	-	0.0%
Hamilton Harbour Remedial Action Plan	-	-	-	-	0.0%	-	0.0%
Protective Plumbing Program (3P)	-	-	-	-	0.0%	-	0.0%
Financial Charges	86,020	86,020	86,020	-	0.0%	-	0.0%
	41,246,007	40,616,691	44,167,677	629,316	1.5%	2,921,670	7.1%
Capital and Reserve Recoveries	(3,358,056)	(3,358,056)	(4,809,207)	-	0.0%	(1,451,151)	43.2%
Sub-Total Environmental Services	37,887,951	37,258,635	39,358,470	629,316	1.7%	1,470,519	3.9%
<u>Capital and Reserve Impacts on Operating</u>							
<u>Contributions to Capital</u>							
Wastewater	52,673,000	52,673,000	57,237,984	-	0.0%	4,564,984	8.7%
Sub-Total Contributions to Capital	52,673,000	52,673,000	57,237,984	-	0.0%	4,564,984	8.7%
<u>Contributions for DC Exemptions</u>							
Wastewater	4,080,000	4,080,000	4,590,000	-	0.0%	510,000	12.5%
Sub-Total Contributions for DC Exemptions	4,080,000	4,080,000	4,590,000	-	0.0%	510,000	12.5%

CITY OF HAMILTON
2021 HAMILTON WATER OPERATING BUDGET
WASTEWATER

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<u>Debt Charges</u>							
Wastewater	11,514,374	7,012,631	12,534,242	4,501,743	39.1%	1,019,868	8.9%
DC Debt Charges Recoveries	(1,669,722)	(113,893)	(2,928,248)	(1,555,829)	93.2%	(1,258,526)	75.4%
Sub-Total Debt Charges	9,844,652	6,898,738	9,605,994	2,945,914	29.9%	(238,657)	(2.4%)
Sub-Total Capital Financing	66,597,652	63,651,738	71,433,978	2,945,914	4.4%	4,836,327	7.3%
Reserve Transfers	16,237,123	20,546,482	16,805,027	(4,309,358)	(26.5%)	567,903	3.5%
Sub-Total Cap\Reserve Impacts on Operating	82,834,775	84,198,220	88,239,005	(1,363,444)	(1.6%)	5,404,230	6.5%
TOTAL EXPENDITURES	120,722,727	121,456,855	127,597,475	(734,128)	(0.6%)	6,874,748	5.7%
<u>REVENUES:</u>							
<u>Rate Revenue</u>							
Residential	52,338,648	53,874,613	55,449,195	1,535,965	2.9%	3,110,547	5.9%
Industrial/Commercial/Institutional/Multi-res	57,673,601	56,136,425	60,529,187	(1,537,175)	(2.7%)	2,855,586	5.0%
Non-Metered	290,000	290,000	440,000	-	0.0%	150,000	51.7%
Hauler / 3rd Party Sales	790,000	790,000	902,857	-	0.0%	112,857	14.3%
Overstrength Agreements	2,892,902	3,210,510	3,210,510	317,608	11.0%	317,608	11.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,224,456	417,730	7.2%	417,730	7.2%
Sub-Total Utility Rates	119,791,877	120,526,005	126,756,205	734,128	0.6%	6,964,328	5.8%
<u>Non-Rate Revenue</u>							
Local Improvement Recoveries	265,850	265,850	265,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	515,000	515,000	401,817	-	0.0%	(113,183)	(22.%)
General Fees and Recoveries	150,000	150,000	173,603	-	0.0%	23,603	15.7%
Sub-Total Non-Rate Revenue	930,850	930,850	841,270	-	0.0%	(89,580)	(9.6%)
TOTAL REVENUES	120,722,727	121,456,855	127,597,475	734,128	0.6%	6,874,748	5.7%
NET EXPENDITURES	-	-	-	-	0.0%	-	0.0%

CITY OF HAMILTON
 2021 - 2024 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
 WASTEWATER

	2020	2021	2022	2023	2024	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	%	2022 PROJECTED / 2021 REQUESTED BUDGET	%	2023 PROJECTED / 2022 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
OPERATING EXPENDITURES:											
Divisional Administration & Support	900,865	926,190	944,714	963,608	982,880	25,325	2.8%	18,524	2.0%	18,894	2.0%
Woodward Upgrades	1,108,390	1,441,380	1,470,207	1,499,611	1,529,603	332,990	30.0%	28,828	2.0%	29,404	2.0%
Customer Service	125,970	130,089	132,691	135,345	138,052	4,120	3.3%	2,602	2.0%	2,654	2.0%
Outreach & Education	484,825	465,665	474,978	484,478	494,167	(19,160)	(4.0%)	9,313	2.0%	9,500	2.0%
Service Co-ordination	1,094,374	1,137,808	1,160,564	1,183,776	1,207,451	43,434	4.0%	22,756	2.0%	23,211	2.0%
Engineering Systems & Data Collection	540,994	531,794	542,430	553,279	564,344	(9,200)	(1.7%)	10,636	2.0%	10,849	2.0%
Compliance & Regulations	465,083	479,944	489,543	499,334	509,321	14,862	3.2%	9,599	2.0%	9,791	2.0%
Laboratory Services	2,343,831	2,282,899	2,328,557	2,375,128	2,422,630	(60,932)	(2.6%)	45,658	2.0%	46,571	2.0%
Environmental Monitoring & Enforcement	1,823,759	2,133,769	2,176,445	2,219,973	2,264,373	310,010	17.0%	42,675	2.0%	43,529	2.0%
Water Distribution & Wastewater Collection	4,763,281	5,420,414	5,528,822	5,639,399	5,752,187	657,133	13.8%	108,408	2.0%	110,576	2.0%
Plant Operations	12,141,813	13,033,149	13,293,812	13,559,688	13,830,882	891,336	7.3%	260,663	2.0%	265,876	2.0%
Plant Maintenance	5,210,614	5,629,563	5,742,155	5,856,998	5,974,138	418,949	8.0%	112,591	2.0%	114,843	2.0%
Capital Delivery	717,755	872,235	889,680	907,474	925,623	154,481	21.5%	17,445	2.0%	17,794	2.0%
Sustainable Initiatives	643,990	487,768	497,524	507,474	517,624	(156,221)	(24.3%)	9,755	2.0%	9,950	2.0%
Infrastructure Planning & System Design	899,608	1,095,824	1,117,740	1,140,095	1,162,897	196,215	21.8%	21,916	2.0%	22,355	2.0%
Wastewater Abatement Program	1,150,040	1,192,450	1,216,299	1,240,625	1,265,437	42,410	3.7%	23,849	2.0%	24,326	2.0%
Alectra Utilities Service Contract	2,800,000	2,856,000	2,913,120	2,971,382	3,025,000	56,000	2.0%	57,120	2.0%	58,262	2.0%
Corporate & Departmental Support Services	3,394,758	3,414,555	3,482,846	3,552,503	3,623,553	19,797	0.6%	68,291	2.0%	69,657	2.0%
Utilities Arrears Program	250,040	250,160	255,163	260,266	265,472	120	0.0%	5,003	2.0%	5,103	2.0%
Sewer Lateral Management Program	300,000	300,000	306,000	312,120	318,362	-	0.0%	6,000	2.0%	6,120	2.0%
Financial Charges	86,020	86,020	87,740	89,495	91,285	-	0.0%	1,720	2.0%	1,755	2.0%
	41,246,007	44,167,677	45,051,031	45,952,051	46,865,282	2,921,670	7.1%	883,354	2.0%	901,021	2.0%
Capital and Reserve Recoveries	(3,358,056)	(4,809,207)	(4,905,391)	(5,003,499)	(5,103,569)	(1,451,151)	43.2%	(96,184)	2.0%	(98,108)	2.0%
Sub-Total	37,887,951	39,358,470	40,145,640	40,948,552	41,761,713	1,470,519	3.9%	787,169	2.0%	802,913	2.0%
Capital and Reserve Impacts on Operating											
Contributions to Capital											
Water Quality Initiatives	-	-	-	-	-	-	-	-	-	-	-
Wastewater	52,673,000	57,237,984	46,724,000	42,673,000	43,978,000	4,564,984	8.7%	(10,513,984)	(18.4%)	(4,051,000)	(8.7%)
Sub-Total Contributions to Capital	52,673,000	57,237,984	46,724,000	42,673,000	43,978,000	4,564,984	8.7%	(10,513,984)	(18.4%)	(4,051,000)	(8.7%)
Contributions for DC Exemptions											
Wastewater	4,080,000	4,590,000	4,590,000	4,590,000	4,590,000	510,000	12.5%	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	4,080,000	4,590,000	4,590,000	4,590,000	4,590,000	510,000	12.5%	-	0.0%	-	0.0%
Debt Charges											
Wastewater	11,514,374	12,534,242	20,704,348	26,710,639	30,660,697	1,019,868	8.9%	8,170,105	65.2%	6,006,292	29.0%
DC Debt Charges Recoveries	(1,669,722)	(2,928,248)	(7,811,919)	(11,683,767)	(14,653,982)	(1,258,526)	75.4%	(4,883,671)	166.8%	(3,871,848)	49.6%
Sub-Total Debt Charges	9,844,652	9,605,994	12,892,428	15,026,873	16,006,715	(238,657)	(2.4%)	3,286,434	34.2%	2,134,444	16.6%
Sub-Total Capital Financing	66,597,652	71,433,978	64,206,428	62,289,873	64,574,715	4,836,327	7.3%	(7,227,550)	(10.1%)	(1,916,556)	(3.0%)
Reserve Transfers	16,237,123	16,805,027	29,069,556	35,898,752	39,030,935	567,903	3.5%	12,264,529	73.0%	6,829,197	23.5%
Sub-Total Capital and Reserve Impacts on Operating	82,834,775	88,239,005	93,275,984	98,188,625	103,605,650	5,404,230	6.5%	5,036,979	5.7%	4,912,641	5.3%
TOTAL EXPENDITURES	120,722,727	127,597,475	133,421,624	139,137,177	145,367,363	6,874,748	5.7%	5,824,149	4.6%	5,715,554	4.3%

CITY OF HAMILTON
2019 - 2022 WATER, WASTEWATER AND STORM OPERATING BUDGET
WASTEWATER

	2020	2021	2022	2023	2024	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	%	2022 PROJECTED / 2021 REQUESTED BUDGET	%	2023 PROJECTED / 2022 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
REVENUES:											
Rate Revenue											
Residential	52,338,648	55,449,195	58,523,848	61,480,084	64,767,205	3,110,547	5.9%	3,074,653	5.5%	2,956,236	5.1%
Industrial/Commercial/Institutional/Multi-res	57,673,601	60,529,187	62,936,285	65,343,383	68,035,628	2,855,586	5.0%	2,407,098	4.0%	2,407,098	3.8%
Haldimand	-	-	-	-	-	-	0.0%	-	-	-	-
Halton	-	-	-	-	-	-	0.0%	-	-	-	-
Non-Metered	290,000	440,000	455,000	470,000	485,000	150,000	51.7%	15,000	3.4%	15,000	3.3%
Hauler / 3rd Party Sales	790,000	902,857	929,943	957,841	976,998	112,857	14.3%	27,086	3.0%	27,898	3.0%
Overstrength Agreements	2,892,902	3,210,510	3,306,825	3,406,030	3,474,151	317,608	11.0%	96,315	3.0%	99,205	3.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,411,190	6,603,525	6,735,596	417,730	7.2%	186,734	3.0%	192,336	3.0%
Sub-Total Utility Rates	119,791,877	126,756,205	132,563,091	138,260,864	144,474,578	6,964,328	5.8%	5,806,886	4.6%	5,697,773	4.3%
Non-Rate Revenue											
Local Improvement Recoveries	265,850	265,850	265,850	265,850	265,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	515,000	401,817	413,872	426,288	439,077	(113,183)	(22.0%)	12,055	3.0%	12,416	3.0%
General Fees and Recoveries	150,000	173,603	178,811	184,175	187,858	23,603	15.7%	5,208	3.0%	5,364	3.0%
Sub-Total Non-Rate Revenue	930,850	841,270	858,532	876,313	892,785	(89,580)	(9.6%)	17,263	2.1%	17,780	2.1%
TOTAL REVENUES	120,722,727	127,597,475	133,421,624	139,137,177	145,367,363	6,874,748	5.7%	5,824,149	4.6%	5,715,554	4.3%
NET EXPENDITURES	-	-	-	-	-	-	0.0%	(0)	0.0%	0	0.0%

CITY OF HAMILTON
2021 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
STORM

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>							
Divisional Administration & Support	200,150	200,150	205,777	-	0.0%	5,627	2.8%
Woodward Upgrades	-	-	-	-	0.0%	-	0.0%
Customer Service	31,181	26,446	32,200	4,735	15.2%	1,020	3.3%
Outreach & Education	121,209	87,355	116,418	33,854	27.9%	(4,790)	(4.0%)
Service Co-ordination	722,402	636,298	751,073	86,104	11.9%	28,671	4.0%
Engineering Systems & Data Collection	135,251	141,738	132,951	(6,487)	(4.8%)	(2,300)	(1.7%)
Compliance & Regulations	23,415	23,415	24,163	-	0.0%	748	3.2%
Laboratory Services	141,028	132,196	137,362	8,832	6.3%	(3,666)	(2.6%)
Environmental Monitoring & Enforcement	68,497	68,497	80,141	-	0.0%	11,643	17.0%
Water Distribution & Wastewater Collection	504,936	589,205	574,595	(84,269)	(16.7%)	69,660	13.8%
Plant Operations	492,404	462,014	528,552	30,390	6.2%	36,148	7.3%
Plant Maintenance	211,313	204,365	228,304	6,948	3.3%	16,990	8.0%
Capital Delivery	159,501	159,501	193,830	-	0.0%	34,329	21.5%
Sustainable Initiatives	143,111	143,111	108,395	-	0.0%	(34,716)	(24.3%)
Infrastructure Planning & System Design	199,922	199,922	243,527	-	0.0%	43,605	21.8%
Wastewater Abatement Program	-	-	-	-	0.0%	-	0.0%
Alectra Utilities Service Contract	-	-	-	-	0.0%	-	0.0%
Corporate & Departmental Support Services	466,742	466,742	469,464	-	0.0%	2,722	0.6%
Utilities Arrears Program	-	-	-	-	0.0%	-	0.0%
Sewer Lateral Management Program	-	-	-	-	0.0%	-	0.0%
Hamilton Harbour Remedial Action Plan	382,550	382,550	370,964	-	0.0%	(11,586)	(3.0%)
Protective Plumbing Program (3P)	1,000,000	575,000	752,870	425,000	42.5%	(247,130)	(24.7%)
Financial Charges	-	-	-	-	0.0%	-	0.0%
	5,003,612	4,498,505	4,950,586	505,106	10.1%	(53,025)	(1.1%)
Capital and Reserve Recoveries	(811,331)	(811,331)	(1,161,939)	-	0.0%	811,331	(100.0%)
Sub-Total	4,192,281	3,687,175	3,788,647	505,106	12.0%	758,305	18.1%
<u>Capital and Reserve Impacts on Operating</u>							
<u>Contributions to Capital</u>							
Stormwater	15,685,000	15,685,000	17,632,679	-	0.0%	1,947,679	12.4%
Sub-Total Contributions to Capital	15,685,000	15,685,000	17,632,679	-	0.0%	1,947,679	12.4%
<u>Contributions for DC Exemptions</u>							
Stormwater	1,680,000	1,680,000	1,890,000	-	0.0%	210,000	12.5%
Sub-Total Contributions for DC Exemptions	1,680,000	1,680,000	1,890,000	-	0.0%	210,000	12.5%

CITY OF HAMILTON
2021 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
STORM

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED ACTUAL / 2020 RESTATED BUDGET	%	2021 REQUESTED / 2020 RESTATED BUDGET	%
	\$	\$	\$	\$	%	\$	%
<u>Debt Charges</u>							
Stormwater	3,399,997	651,022	2,490,898	2,748,975	80.9%	(909,099)	(26.7%)
DC Debt Charges Recoveries	(1,821,145)	(24,363)	(296,644)	(1,796,782)	98.7%	1,524,501	(83.7%)
Sub-Total Debt Charges	1,578,852	626,659	2,194,254	952,193	60.3%	615,403	39.0%
Sub-Total Capital Financing	18,943,852	17,991,659	21,716,933	952,193	5.0%	2,773,082	14.6%
Reserve Transfers	(22,968,132)	(21,510,834)	(25,311,145)	(1,457,299)	6.3%	(2,343,013)	10.2%
Sub-Total Cap\Reserve Impacts on Operating	(4,024,281)	(3,519,175)	(3,594,212)	(505,106)	12.6%	430,069	(10.7%)
TOTAL EXPENDITURES	168,000	168,000	194,435	-	0.0%	26,435	15.7%
<u>REVENUES:</u>							
<u>Non-Rate Revenue</u>							
General Fees and Recoveries	168,000	168,000	194,435	-	0.0%	26,435	15.7%
Sub-Total Non-Rate Revenue	168,000	168,000	194,435	-	0.0%	26,435	15.7%
TOTAL REVENUES	168,000	168,000	194,435	-	0.0%	26,435	15.7%
NET EXPENDITURES	-	-	-	-	0.0%	-	0.0%

**CITY OF HAMILTON
2021 - 2024 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
STORM**

	2020	2021	2022	2023	2024	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	%	2022 PROJECTED / 2021 REQUESTED BUDGET	%	2023 PROJECTED / 2022 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
OPERATING EXPENDITURES:											
Divisional Administration & Support	200,150	205,777	209,893	214,090	218,372	5,627	2.8%	4,116	2.0%	4,198	2.0%
Woodward Upgrades	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Customer Service	31,181	32,200	32,844	33,501	34,171	1,020	3.3%	644	2.0%	657	2.0%
Outreach & Education	121,209	116,418	118,747	121,122	123,544	(4,790)	(4.0%)	2,328	2.0%	2,375	2.0%
Service Co-ordination	722,402	751,073	766,095	781,416	797,045	28,671	4.0%	15,021	2.0%	15,322	2.0%
Engineering Systems & Data Collection	135,251	132,951	135,610	138,322	141,089	(2,300)	(1.7%)	2,659	2.0%	2,712	2.0%
Compliance & Regulations	23,415	24,163	24,647	25,139	25,642	748	3.2%	483	2.0%	493	2.0%
Laboratory Services	141,028	137,362	140,109	142,911	145,770	(3,666)	(2.6%)	2,747	2.0%	2,802	2.0%
Environmental Monitoring & Enforcement	68,497	80,141	81,744	83,378	85,046	11,643	17.0%	1,603	2.0%	1,635	2.0%
Water Distribution & Wastewater Collection	504,936	574,595	586,087	597,809	609,765	69,660	13.8%	11,492	2.0%	11,722	2.0%
Plant Operations	492,404	528,552	539,123	549,905	560,903	36,148	7.3%	10,571	2.0%	10,782	2.0%
Plant Maintenance	211,313	228,304	232,870	237,527	242,278	16,990	8.0%	4,566	2.0%	4,657	2.0%
Capital Delivery	159,501	193,830	197,707	201,661	205,694	34,329	21.5%	3,877	2.0%	3,954	2.0%
Sustainable Initiatives	143,111	108,395	110,562	112,774	115,029	(34,716)	(24.3%)	2,168	2.0%	2,211	2.0%
Infrastructure Planning & System Design	199,922	243,527	248,398	253,366	258,433	43,605	21.8%	4,871	2.0%	4,968	2.0%
Corporate & Departmental Support Services	466,742	469,464	478,853	488,430	498,199	2,722	0.6%	9,389	2.0%	9,577	2.0%
Utilities Arrears Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Sewer Lateral Management Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Hamilton Harbour Remedial Action Plan	382,550	370,964	378,383	385,951	393,670	(11,586)	(3.0%)	7,419	2.0%	7,568	2.0%
Protective Plumbing Program (3P)	1,000,000	752,870	767,927	783,286	798,952	(247,130)	(24.7%)	15,057	2.0%	15,359	2.0%
	5,003,612	4,950,586	5,049,598	5,150,590	5,253,602	(53,025)	(1.1%)	99,012	2.0%	100,992	2.0%
Capital and Reserve Recoveries	(811,331)	(1,161,939)	(1,185,178)	(1,208,882)	(1,233,059)	(350,609)	43.2%	(23,239)	2.0%	(23,704)	2.0%
Sub-Total	4,192,281	3,788,647	3,864,420	3,941,708	4,020,542	(403,634)	(9.6%)	75,773	2.0%	77,288	2.0%
Capital and Reserve Impacts on Operating											
Contributions to Capital											
Stormwater	15,685,000	17,632,679	19,084,321	23,175,000	29,390,000	1,947,679	12.4%	1,451,642	8.2%	4,090,679	21.4%
Sub-Total Contributions to Capital	15,685,000	17,632,679	19,084,321	23,175,000	29,390,000	1,947,679	12.4%	1,451,642	8.2%	4,090,679	21.4%
Contributions for DC Exemptions											
Stormwater	1,680,000	1,890,000	1,890,000	1,890,000	1,890,000	210,000	12.5%	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	1,680,000	1,890,000	1,890,000	1,890,000	1,890,000	210,000	12.5%	-	0.0%	-	0.0%
Debt Charges											
Stormwater	3,399,997	2,490,898	3,185,448	4,157,207	5,127,892	(909,099)	(26.7%)	694,550	27.9%	971,759	30.5%
DC Debt Charges Recoveries	(1,821,145)	(296,644)	(762,271)	(1,506,653)	(2,250,918)	1,524,501	(83.7%)	(465,627)	157.0%	(744,382)	97.7%
Sub-Total Debt Charges	1,578,852	2,194,254	2,423,177	2,650,554	2,876,974	615,403	39.0%	228,923	10.4%	227,377	9.4%
Sub-Total Capital Financing	18,943,852	21,716,933	23,397,498	27,715,554	34,156,974	2,773,082	14.6%	1,680,565	7.7%	4,318,056	18.5%
Reserve Transfers	(22,968,132)	(25,311,145)	(27,061,650)	(31,450,986)	(37,967,115)	(2,343,013)	10.2%	(1,750,504)	6.9%	(4,389,337)	16.2%
Sub-Total Capital and Reserve Impacts on Operating	(4,024,281)	(3,594,212)	(3,664,152)	(3,735,432)	(3,810,141)	430,069	(10.7%)	(69,940)	1.9%	(71,280)	1.9%
TOTAL EXPENDITURES	168,000	194,435	200,268	206,276	210,401	26,435	15.7%	5,833	3.0%	6,008	3.0%

**CITY OF HAMILTON
 2021 - 2024 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
 STORM**

	2020 RESTATED BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	CHANGE 2021 REQUESTED / 2020 RESTATED BUDGET		CHANGE 2022 PROJECTED / 2021 REQUESTED BUDGET		CHANGE 2023 PROJECTED / 2022 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
REVENUES:											
<u>Non-Rate Revenue</u>											
General Fees and Recoveries	168,000	194,435	200,268	206,276	210,401	26,435	15.7%	5,833	3.0%	6,008	3.0%
Sub-Total Non-Rate Revenue	168,000	194,435	200,268	206,276	210,401	26,435	15.7%	5,833	3.0%	6,008	3.0%
TOTAL REVENUES	168,000	194,435	200,268	206,276	210,401	26,435	15.7%	5,833	3.0%	6,008	3.0%
NET EXPENDITURES	-	-	-	-	-	-	0.0%	-	-	-	0.0%

HAMILTON WATER
2021 RATE SUPPORTED STAFFING SUMMARY

Deptid	Deptid Description	2020 RESTATED	2021 MAINTENANCE	2021 PROGRAM CHANGES	2021 REQUESTED	2021 REQUESTED vs. 2020 RESTATED
510200	Director Hamilton Water	3.00	3.00	0.00	3.00	0.00
510203	WWW Operations Director	2.00	2.00	0.00	2.00	0.00
510205	Woodward Upgrades	11.00	11.00	1.00	12.00	1.00
510206	Inventory & Fleet Management	7.00	7.00	0.00	7.00	0.00
510210	Customer Service & Community Outreach	2.00	2.00	0.00	2.00	0.00
510215	Education & Outreach *	5.65	4.65	1.00	5.65	0.00
510220	Service Co-ordination	21.00	21.00	1.00	22.00	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	0.00	25.00	0.00
510260	Environmental Monitoring & Enforcement	15.00	15.00	1.00	16.00	1.00
510270	Water Distribution (WD) & Wastewtr Collection (WWC)	5.00	5.00	0.00	5.00	0.00
510275	WD & WWC Contracts	26.00	26.00	2.00	28.00	2.00
510280	WD & WWC Construction	20.00	20.00	0.00	20.00	0.00
510285	WD & WWC Maintenance	19.00	19.00	4.00	23.00	4.00
510290	WD & WWC Operations	22.00	22.00	0.00	22.00	0.00
510300	WWW Planning & Capital Director	2.00	2.00	0.00	2.00	0.00
510305	Sustainable Initiatives	7.00	7.00	0.00	7.00	0.00
510310	Plant Operations & Maintenance	6.00	6.00	0.00	6.00	0.00
510320	Plant Maintenance & Technical Services	1.00	1.00	0.00	1.00	0.00
510321	Plant Maintenance	25.00	25.00	3.00	28.00	3.00
510322	Plant SCADA	6.00	6.00	0.00	6.00	0.00
510323	Plant Technical Services	3.00	3.00	0.00	3.00	0.00
510330	Plant Operations	44.00	44.00	0.00	44.00	0.00
510340	Capital Delivery	12.00	12.00	1.00	13.00	1.00
510350	Infrastructure Planning and System Design	19.00	19.00	0.00	19.00	0.00
Total RATE Supported Staff		325.65	324.65	14.00	338.65	13.00

Note: * Council approved a 5-year temporary Project Manager - Outreach & Education position in 2016 (Report - PW16054).

2021 Rate Budget - Business Case Summary

DEPARTMENT: Public Works

DIVISION	SERVICE / PROGRAM	DESCRIPTION OF PROGRAM ENHANCEMENT	2021 IMPACT			ANNUALIZED IMPACT
			\$ GROSS	\$ NET	FTE Impact	\$ NET
Hamilton Water	Compliance & Regulations	Environmental Enforcement Officer to support the existing Emergency Spills Response Program.	\$ 103,500	\$ 13,500	1.00	\$ 13,500
Hamilton Water	Capital Delivery	Capital Delivery Technologist to support increased project demands and continuous improvement initiatives.	\$ 103,500	\$ 103,500	1.00	\$ 103,500
Hamilton Water	Customer Service & Community Outreach	Project Manager - Outreach & Education was approved on a temporary basis in 2016 (Report - PW16054) and requested to report back in 2021 NOTE: Council approved a 5 year temporary assignment and requested we report back in 2021	\$ 117,000	\$ -	1.00	\$ -
Hamilton Water	Customer Service & Community Outreach	Backwater Prevention Officer to support the increased volume of program work.	\$ 139,000	\$ 84,000	1.00	\$ 84,000
Hamilton Water	Project Management Office	Capital Budget Coordinator to support increased capital project charters and project updates.	\$ 99,000	\$ 99,000	1.00	\$ 99,000
Hamilton Water	Wastewater Collection	Two Stormwater Technologists to develop and manage the stormwater and drainage program.	\$ 307,000	\$ (330,000)	2.00	\$ (330,000)
Hamilton Water	Water Distribution	Water Distribution Construction Crew (WD Operator, Backhoe OIT, AZ Truck Driver OIT, and Labourer OIT) to support the Substandard Water Service Replacement Program	\$ 1,160,000	\$ -	4.00	\$ -
Hamilton Water	Woodward Upgrades Operational Support	Electrician, Instrumentation Technician, and Millwright required to support Woodward Upgrades Project	\$ 333,000	\$ 333,000	3.00	\$ 333,000
Divn Subtotal			\$ 2,362,000	\$ 303,000	14.00	\$ 303,000
DEPARTMENT TOTAL			\$ 2,362,000	\$ 303,000	14.00	\$ 303,000

TOTAL NET Impact = net annualized (full year) amount - please state under "Description of Program Enhancement" if other revenue sources will be used to offset the cost of the program change (therefore identify gross cost); also please identify if 2021 calendar (part-year) impact is significantly different due to delayed implementation.

CITY OF HAMILTON
2021 WATER AND WASTEWATER/STORM FEES AND CHARGES
Effective January 1, 2021

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/ Storm Rate
15 mm	\$ 0.38	\$ 0.42
16 mm	\$ 0.38	\$ 0.42
20 mm	\$ 0.38	\$ 0.42
21 mm	\$ 0.38	\$ 0.42
25 mm	\$ 0.95	\$ 1.05
38 mm	\$ 1.90	\$ 2.10
50 mm	\$ 3.04	\$ 3.36
75 mm	\$ 6.08	\$ 6.72
100 mm	\$ 9.50	\$ 10.50
150 mm	\$ 19.00	\$ 21.00
200 mm	\$ 30.40	\$ 33.60
250 mm	\$ 43.70	\$ 48.30
300 mm	\$ 64.60	\$ 71.40

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	0.85	1.70
2	>10	1.70	1.70

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	0.91	1.82
2	>10	1.82	1.82

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

Flat Rate Water Customers Annual Rate: \$620.50

Flat Rate Wastewater/Storm Customers Annual Rate: \$664.30

Combined Flat Rate Water & Wastewater/Storm Customers Annual Rate: \$1,284.80

City of Hamilton - 2021 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	\$ 3.73
38	1.5	\$ 8.58
50	2	\$ 14.92
75	3	\$ 33.57
100	4	\$ 59.68
150	6	\$ 134.28
200	8	\$ 238.72
250	10	\$ 238.72
300	12	\$ 238.72

PUBLIC WORKS
HAMILTON WATER

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

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026	510220	47220	1	WATER DISTRIBUTION Water Meter Permit Fee Note: 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 Displacement	\$359.70	\$359.70	n	\$359.70	0.0%	Current fee achieves full cost recovery
			1b)	20mm Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery
			1c)	21mm Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery
			1d)	25mm Displacement	\$559.40	\$559.40	n	\$559.40	0.0%	Current fee achieves full cost recovery
			1e)	38mm Displacement	\$905.08	\$905.08	n	\$905.08	0.0%	Current fee achieves full cost recovery
			1f)	50mm Displacement	\$1,218.80	\$1,218.80	n	\$1,218.80	0.0%	Current fee achieves full cost recovery
			1g)	50mm Compound with strainer	\$3,316.40	\$3,316.40	n	\$3,316.40	0.0%	Current fee achieves full cost recovery
			1h)	100mm Compound with strainer	\$5,304.84	\$5,304.84	n	\$5,304.84	0.0%	Current fee achieves full cost recovery
			1i)	150mm Compound with strainer	\$10,419.16	\$11,495.85	n	\$11,495.85	10.3%	To achieve full cost recovery
			1j)	150mm Fire Service Compound	\$14,215.97	\$14,215.97	n	\$14,215.97	0.0%	Current fee achieves full cost recovery
			1k)	200mm Fire Service Compound	\$19,450.06	\$19,450.06	n	\$19,450.06	0.0%	Current fee achieves full cost recovery
			1l)	250mm Fire Service Compound	\$25,297.11	\$25,297.11	n	\$25,297.11	0.0%	Current fee achieves full cost recovery
			1m)	Radio Remote Read Equipment Installation	\$214.63	\$217.59	n	\$217.59	1.4%	To achieve full cost recovery
R84-026	510220	45519	2	Water Meter Removal Fee Note: 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 Displacement	\$127.54	\$116.19	y	\$131.29	2.9%	To achieve full cost recovery
			2b)	20mm Displacement	\$127.54	\$116.19	y	\$131.29	2.9%	To achieve full cost recovery
			2c)	21mm Displacement	\$127.54	\$116.19	y	\$131.29	2.9%	To achieve full cost recovery
			2d)	25mm Displacement	\$127.54	\$116.19	y	\$131.29	2.9%	To achieve full cost recovery
			2e)	38mm - 250mm 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	Water Meter Inspection Services Note: Cost for customer requested service relating to meter investigation						
			3a)	Regular Hours Inspection	\$130.92	\$119.44	y	\$134.97	3.1%	To achieve full cost recovery
			3b)	After Hours Inspection	\$171.45	\$156.77	y	\$177.15	3.3%	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

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

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026	510220	45608	4	Replacement Cost for Lost Meter Note: Cost to replace a meter that has been lost, stolen or damaged. Includes meter, installation and administrative costs.						
			4a)	15mm Displacement	\$250.58	\$284.45	y	\$321.43	28.3%	To achieve full cost recovery
			4b)	16mm Displacement	\$250.58	\$284.45	y	\$321.43	28.3%	To achieve full cost recovery
			4c)	20mm Displacement	\$386.73	\$342.24	y	\$386.73	0.0%	Current fee achieves full cost recovery
			4d)	21mm Displacement	\$386.73	\$342.24	y	\$386.73	0.0%	Current fee achieves full cost recovery
			4e)	25mm Displacement	\$445.19	\$407.74	y	\$460.75	3.5%	To achieve full cost recovery
			4f)	38mm Displacement	\$1,223.36	\$1,082.62	y	\$1,223.36	0.0%	Current fee achieves full cost recovery
			4g)	50mm Turbine	\$1,465.95	\$1,401.13	y	\$1,583.28	8.0%	To achieve full cost recovery
			4h)	50mm Displacement	\$1,804.05	\$1,596.50	y	\$1,804.05	0.0%	Current fee achieves full cost recovery
			4i)	50mm Compound	\$2,338.65	\$2,069.60	y	\$2,338.65	0.0%	Current fee achieves full cost recovery
			4j)	100mm Turbine	\$3,688.50	\$7,212.18	y	\$8,149.76	121.0%	To achieve full cost recovery
			4k)	100mm Compound	\$5,959.20	\$5,273.63	y	\$5,959.20	0.0%	Current fee achieves full cost recovery
			4l)	100mm Fire Service Turbine	\$8,149.76	\$8,855.57	y	\$10,006.79	22.8%	To achieve full cost recovery
			4m)	100mm Fire Service Compound	\$10,006.80	\$10,555.28	y	\$11,927.47	19.2%	To achieve full cost recovery
			4n)	100mm Magnetic Flow Meter	\$11,136.43	\$9,855.25	y	\$11,136.43	0.0%	Current fee achieves full cost recovery
			4o)	100mm Fire Rated Magnetic Flow Meter	\$11,627.81	\$10,290.10	y	\$11,627.81	0.0%	Current fee achieves full cost recovery
			4p)	150mm Turbine	\$6,787.25	\$6,970.78	y	\$7,876.98	16.1%	To achieve full cost recovery
			4q)	150mm Compound	\$10,328.00	\$9,525.73	y	\$10,764.07	4.2%	To achieve full cost recovery
			4r)	150mm Fire Service Turbine	\$12,394.87	\$10,968.91	y	\$12,394.87	0.0%	Current fee achieves full cost recovery
			4s)	150mm Fire Service Compound	\$15,762.63	\$13,949.23	y	\$15,762.63	0.0%	Current fee achieves full cost recovery
			4t)	150mm Magnetic Flow Meter	\$12,337.41	\$11,006.20	y	\$12,437.01	0.8%	To achieve full cost recovery
			4u)	150mm Fire Rated Magnetic Flow Meter	\$13,753.00	\$12,170.80	y	\$13,753.00	0.0%	Current fee achieves full cost recovery
			4v)	200mm Turbine	\$7,424.88	\$7,150.30	y	\$8,079.84	8.8%	To achieve full cost recovery
			4w)	200mm Compound	\$11,551.00	\$10,812.26	y	\$12,217.85	5.8%	To achieve full cost recovery
			4x)	200mm Fire Service Turbine	\$16,333.56	\$14,454.48	y	\$16,333.56	0.0%	Current fee achieves full cost recovery
			4y)	200mm Fire Service Compound	\$21,996.69	\$19,466.10	y	\$21,996.69	0.0%	Current fee achieves full cost recovery
			4z)	200mm Magnetic Flow Meter	\$14,890.54	\$13,177.47	y	\$14,890.54	0.0%	Current fee achieves full cost recovery
			4aa)	200mm Fire Rated Magnetic Flow Meter	\$16,266.37	\$14,395.02	y	\$16,266.37	0.0%	Current fee achieves full cost recovery
			4ab)	250mm Turbine	\$12,909.20	\$12,946.04	y	\$14,629.03	13.3%	To achieve full cost recovery
			4ac)	250mm Magnetic Flow Meter	\$15,070.41	\$13,969.71	y	\$15,785.77	4.7%	To achieve full cost recovery
			4ad)	250mm Fire Rated Magnetic Flow Meter	\$18,334.25	\$16,225.00	y	\$18,334.25	0.0%	Current fee achieves full cost recovery
			4ae)	250mm Fire Service Turbine	\$20,588.32	\$21,296.60	y	\$24,065.16	16.9%	To achieve full cost recovery
			4af)	250mm Fire Service Compound	\$29,046.50	\$25,704.87	y	\$29,046.50	0.0%	Current fee achieves full cost recovery
			4ag)	50mm Strainer	\$473.64	\$454.61	y	\$513.71	8.5%	To achieve full cost recovery
			4ah)	100mm Strainer	\$876.50	\$910.34	y	\$1,028.68	17.4%	To achieve full cost recovery
			4ai)	150mm Strainer	\$1,401.98	\$1,447.69	y	\$1,635.89	16.7%	To achieve full cost recovery
			4aj)	200mm Strainer	\$2,381.81	\$2,107.80	y	\$2,381.81	0.0%	Current fee achieves full cost recovery
			4ak)	250mm Strainer	\$3,993.11	\$3,533.73	y	\$3,993.11	0.0%	Current fee achieves full cost recovery
R84-026	510220	45690	5	Bench Testing Water Meters Note: 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	\$355.45	\$314.56	y	\$355.45	0.0%	Current fee achieves full cost recovery
			5b)	16-25mm Diameter - Test where meter has been removed from service within prior 90 days	\$147.34	\$195.79	y	\$221.24	50.2%	To achieve full cost recovery
			5c)	20 mm Diameter	\$410.04	\$364.89	y	\$412.33	0.6%	To achieve full cost recovery
			5d)	25 mm Diameter	\$468.50	\$443.85	y	\$501.55	7.1%	To achieve full cost recovery
			5e)	38 mm Diameter	\$1,033.02	\$914.18	y	\$1,033.02	0.0%	Current fee achieves full cost recovery
			5f)	50 mm Diameter	\$1,742.55	\$1,542.08	y	\$1,742.55	0.0%	Current fee achieves full cost recovery
			5g)	100 mm plus diameter (In Situ testing)	\$1,051.37	\$930.42	y	\$1,051.37	0.0%	Current fee achieves full cost recovery

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**PUBLIC WORKS
HAMILTON WATER**

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

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 Including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
10-103	510220	45644	6	Backflow Prevention Program Note: Costs for contractor registration fee, administration fees for processing backflow prevention test reports and survey forms.						
			6a)	Annual Program Registration Fee	\$152.51	\$139.88	y	\$158.06	3.6%	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)	\$181.12	\$166.24	y	\$187.85	3.7%	To achieve full cost recovery
			6d)	Backflow Prevention Device Investigation - Regular Hours	\$160.60	\$145.95	y	\$164.92	2.7%	To achieve full cost recovery
			6e)	Backflow Prevention Device Investigation - After Hours	\$233.80	\$206.90	y	\$233.80	0.0%	Current fee achieves full cost recovery
R84-026	514330	45590	7	Construction Water Note: 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)	\$100.00	\$103.70	n	\$103.70	3.7%	Equal to variable water rate increase
			7b)	Multi-residential (per apartment/condo unit)	\$46.75	N/A	n			Fee no longer applied as of May 2020
			7c)	Industrial/Commercial/Institutional (\$/1,000 sqft of building area or \$/ha where no structure is constructed)	\$32.80	N/A	n			Fee no longer applied as of May 2020
			8	Hydrant/Road Adaptor Fees Note: 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/m³)	\$2.45	\$2.55	n	\$2.55	4.1%	Rate is 1.5x volumetric water rate
R84-026	514330	41209	8b)	Hydrant/Road Adaptor Connection/Disconnection Fee (Regular Hours-Fee for Both Services)	\$146.94	\$151.14	n	\$151.14	2.9%	To achieve full cost recovery
R84-026	514330	41209	8c)	Hydrant/Road Adaptor Connection/Disconnection Fee (After Hours/Emergency-Fee for Both S	\$276.71	\$285.53	n	\$285.53	3.2%	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	\$82.56	n	\$82.56	0.0%	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%	To achieve full cost recovery
R84-026	514330	47244	9	Private Water Station Agreement Fees Annual Renewal	\$386.22	\$408.16	n	\$408.16	5.7%	To achieve full cost recovery
R84-026	514330	47232	10	Water Haulage Fees						
			10a)	Annual Water Haulage Permit Fee Note: Annual license fee to utilize the City's public filling stations.	\$64.91	\$57.82	y	\$65.34	0.7%	No cards issued, Online Registration
			10b)	Account review Note: Costs charged for administrative services to provide customer account information for personal or taxation purposes.	\$99.34	\$87.91	y	\$99.34	0.0%	Current fee achieves full cost recovery
R84-026	510220	45519	11	General Administration Fees						
			11a)	General Administrative Requests (per hour)/Report Requests	\$78.15	\$69.76	y	\$78.83	0.9%	To achieve full cost recovery
			11b)	Permit Cancellation administrative fee	\$46.49	\$41.29	y	\$46.66	0.4%	To achieve full cost recovery
			11c)	Permit Renewal Fee	\$46.49	\$41.29	y	\$46.66	0.4%	To achieve full cost recovery
			11d)	Lead Line Replacement Loan Application Fee	\$58.31	\$51.92	y	\$58.67	0.6%	To achieve full cost recovery
			11e)	Monthly AMI Manual Meter Read Fee	\$3.39	\$3.00	y	\$3.39	0.0%	Current fee achieves full cost recovery
			11f)	Water Shut-off Admin Fee	\$22.60	\$22.60	y	\$25.54	13.0%	To achieve full cost recovery
			11g)	Water Shut-off Notice on Door	\$31.92	\$31.92	y	\$36.07	13.0%	To achieve full cost recovery
			11h)	AMI Consumption History Fee	N/A	\$12.79	y	\$14.45		New Fee
			11i)	NSF Fee - Processing fee on all 'returned' payments	\$39.89	\$36.10	y	\$40.79	2.3%	To achieve full cost recovery

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**PUBLIC WORKS
HAMILTON WATER**

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

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026			12	Water Inspection Services Note: Costs associated with various permit and inspection services related to water services for properties.						
	514330	47235	12a)	Private Water Service Repair/Replacement Inspection (Reg Hours - Max 1 Hour Total	\$105.60	\$95.80	y	\$108.25	2.5%	To achieve full cost recovery
	514330	47235	12b)	Private Water Service Repair/Replacement Inspection (After Hours /Emerg - Max 1 Hour	\$178.95	\$163.01	y	\$184.20	2.9%	To achieve full cost recovery
	514330	45690	12c)	Water Service Abandonment Inspection (Regular Hours - Max 1 Hour Total Labour)	\$94.32	\$85.57	y	\$96.69	2.5%	To achieve full cost recovery
	514330	45690	12d)	Water Service Abandonment Inspection (After Hours / Emergency - Max 1 Hour Total	\$167.65	\$152.77	y	\$172.63	3.0%	To achieve full cost recovery
	514330	45690	12e)	Water Service Inspection for Demolition (Regular Hours - Max 1 Hour Total Labour)	\$94.32	\$85.57	y	\$96.69	2.5%	To achieve full cost recovery
	514330	45690	12f)	Water Service Inspection for Demolition (After Hours / Emergency - Max 1 Hour Total	\$167.65	\$152.77	y	\$172.63	3.0%	To achieve full cost recovery
	514330	45690	12g)	Missed or Cancelled Inspection	\$68.53	\$61.82	y	\$69.86	1.9%	To achieve full cost recovery
R84-026	514330	45690	13	Upsize Public Portion Water Service from 20mm to 25mm Note: Charge for upsizing a public portion water service from 20mm to 25mm, when a public portion water service replacement is already being completed by the City.	\$155.00	\$156.55	n	\$156.55	1.0%	To achieve full cost recovery
R84-026	514330	45679	14	Turning Water Off or On Note: 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.						
			14a)	Turning Water On/Off (Regular Hours)	\$124.10	\$127.40	n	\$127.40	2.7%	To achieve full cost recovery
			14b)	Turning Water On/Off (After Hours/Emergency)	\$208.25	\$214.30	n	\$214.30	2.9%	To achieve full cost recovery
			14c)	Turning Water On/Off During the Same Visit (Regular Hours - Max 1/2 Hour Total Labour)	\$83.47	\$85.54	n	\$85.54	2.5%	To achieve full cost recovery
			14d)	Labour	\$114.13	\$117.12	n	\$117.12	2.6%	To achieve full cost recovery
			14e)	Non-compliance Turn Water Off	\$83.47	\$85.54	n	\$85.54	2.5%	To achieve full cost recovery
			14f)	Non-compliance Turn Water On	\$83.47	\$85.54	n	\$85.54	2.5%	To achieve full cost recovery
R84-026	514330	45636	15	Hydrant Flow Test / Water Quality Flushing Note: Cost to operate a City Fire Hydrant(s) for a maximum of 1 hour total labour.	\$120.11	\$109.31	y	\$123.52	2.8%	To achieve full cost recovery
R84-026	514330	45690	16	Water Quality/Quantity Service Calls Note: 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>						
			16a)	Service Call (Regular Hours - Max 1 Hour Total Labour)	\$94.32	\$85.57	y	\$96.69	2.5%	To achieve full cost recovery
			16b)	Service Call (After Hours - Max 1 Hour Total Labour)	\$167.65	\$149.93	y	\$169.42	1.1%	To achieve full cost recovery
R84-026	510290	45690	17	Hydrant Repair, Replace or Relocate Note: 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	18	Watermain Shutdowns Note: Costs associated with isolating a watermain to facilitate third party work.						
			18a)	Watermain Shutdown / Recharge (Regular Hours-Maximum 1 Hour Total Labour)	\$129.11	\$133.06	n	\$133.06	3.1%	To achieve full cost recovery
			18b)	Watermain Shutdown / Recharge (After Hours / Emergency-Maximum 1 Hour Total Labour)	\$232.49	\$239.68	n	\$239.68	3.1%	To achieve full cost recovery
R84-026	510350	45408	19	Environmental Records Search PRISM Reports related to soil contamination Reports - Environmental Assessments and Master Plans - plus fee per page	\$180.58 \$17.75 \$0.12	\$163.00 \$16.02 \$0.10	y y y	\$184.19 \$18.11 \$0.12	2.0% 2.0% 2.0%	To achieve full cost recovery To achieve full cost recovery To achieve full cost recovery
R84-026	514330	45690	20	Miscellaneous Water Distribution System Repair Note: 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	21	Additional Labour Charges Note: 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.						
			21a)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$25.80	\$23.76	y	\$26.85	4.1%	To achieve full cost recovery
			21b)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$38.70	\$35.62	y	\$40.25	4.0%	To achieve full cost recovery
			21c)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$22.82	\$23.74	n	\$23.74	4.0%	To achieve full cost recovery
			21d)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$34.23	\$35.62	n	\$35.62	4.1%	To achieve full cost recovery

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2021 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	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
COLLECTION SYSTEM INSPECTION & MAINTENANCE										
06-026			1	Wastewater Inspection Services Note: 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)	\$109.25	\$99.15	y	\$112.04	2.6%	To achieve full cost recovery
	516175	47230	1b)	Private Sewer Lateral Repair/Replacement Inspection (After Hours / Emergency - Maximum 1 Hour Total Labour)	\$232.10	\$212.33	y	\$239.93	3.4%	To achieve full cost recovery
	516175	45690	1c)	Missed or Cancelled Inspection	\$78.54	\$70.86	y	\$80.07	2.0%	To achieve full cost recovery
	516175	45690	1d)	Mainline Sewer Inspection Note: 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	2	Sewer Related Service Calls Note: 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)	\$97.30	\$88.15	y	\$99.61	2.4%	To achieve full cost recovery
			2b)	Service Call (After Hours - Maximum 1 Hour Total Labour)	\$196.28	\$179.33	y	\$202.64	3.2%	To achieve full cost recovery
06-026	516175	45690	3	Sewer Lateral Cleaning and Investigation Fees Note: 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	\$458.68	\$414.03	y	\$467.86	2.0%	To achieve full cost recovery
			3b)	Complete Sewer Lateral Investigation - After Hours	\$506.65	\$457.33	y	\$516.78	2.0%	To achieve full cost recovery
			3c)	Partial Sewer Lateral Cleaning - Regular Hours	\$149.89	\$135.30	y	\$152.89	2.0%	To achieve full cost recovery
			3d)	Partial Sewer Lateral Cleaning - After Hours	\$209.85	\$189.43	y	\$214.05	2.0%	To achieve full cost recovery
			3e)	Abandoned Sewer Lateral Investigation - Regular Hours	\$239.83	\$216.49	y	\$244.63	2.0%	To achieve full cost recovery
			3f)	Abandoned Sewer Lateral Investigation - After Hours	\$299.79	\$270.61	y	\$305.79	2.0%	To achieve full cost recovery
06-026	516175	45690	4	Miscellaneous Wastewater Collection System Repair Note: 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	5	Additional Labour Charges Note: 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	\$24.75	\$22.79	y	\$25.75	4.1%	To achieve full cost recovery
			5b)	1/2 Hour Additional Labour (After Hours) - Wastewater Collection	\$37.10	\$34.20	y	\$38.65	4.2%	To achieve full cost recovery

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**PUBLIC WORKS
HAMILTON WATER**

Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
			LABORATORY SERVICES						
			<u>Inorganic Tests:</u>						
		1	Solids						
510250	45519	1a)	Total Suspended Solids (TSS)	\$24.52	\$21.70	y	\$24.52	0.0%	Current fee achieves full cost recovery
		1b)	TSS plus Volatile Suspended Solids (VSS)	\$24.52	\$21.70	y	\$24.52	0.0%	Current fee achieves full cost recovery
		1c)	Total Solids (TS)	\$21.58	\$19.10	y	\$21.58	0.0%	Current fee achieves full cost recovery
		1d)	TS plus Volatile Solids (VS)	\$22.71	\$20.10	y	\$22.71	0.0%	Current fee achieves full cost recovery
		1e)	Total Dissolved Solids	\$36.16	\$32.00	y	\$36.16	0.0%	Current fee achieves full cost recovery
		2	Skalar						
		2a)	Total Cyanide	\$38.87	\$36.90	y	\$41.70	7.3%	To achieve full cost recovery
		2b)	Phenolics	\$35.93	\$33.00	y	\$37.29	3.8%	To achieve full cost recovery
		2c)	Total Kjeldhal Nitrogen (TKN)	\$35.48	\$31.40	y	\$35.48	0.0%	Current fee achieves full cost recovery
		2d)	Ammonia	\$39.10	\$34.60	y	\$39.10	0.0%	Current fee achieves full cost recovery
		2e)	Dissolved Organic Carbon	\$38.76	\$37.00	y	\$41.81	7.9%	To achieve full cost recovery
		2f)	Total Organic Carbon	\$38.76	\$37.00	y	\$41.81	7.9%	To achieve full cost recovery
		2g)	Reactive Silica	\$32.54	\$30.00	y	\$33.90	4.2%	To achieve full cost recovery
510250	45519	3	Ion Chromatography (IC Scan)	\$56.95	\$50.40	y	\$56.95	0.0%	Current fee achieves full cost recovery
510250	45519	4	PC Titrate						
		4a)	pH	\$18.65	\$16.50	y	\$18.65	0.0%	Current fee achieves full cost recovery
		4b)	Alkalinity	\$18.53	\$16.40	y	\$18.53	0.0%	Current fee achieves full cost recovery
		4c)	Conductivity	\$18.53	\$16.40	y	\$18.53	0.0%	Current fee achieves full cost recovery
		4d)	Fluoride	\$28.02	\$24.80	y	\$28.02	0.0%	Current fee achieves full cost recovery
		5	Turbidity	\$27.91	\$26.40	y	\$29.83	6.9%	To achieve full cost recovery
		6	UV Transmittance	\$28.59	\$25.30	y	\$28.59	0.0%	Current fee achieves full cost recovery
		7	Color Apparent	\$25.88	\$22.90	y	\$25.88	0.0%	Current fee achieves full cost recovery
		8	Color True	\$25.88	\$22.90	y	\$25.88	0.0%	Current fee achieves full cost recovery
		9	O Phosphate	\$30.17	\$26.70	y	\$30.17	0.0%	Current fee achieves full cost recovery
		10	Chemical Oxygen Demand (COD)	\$42.83	\$37.90	y	\$42.83	0.0%	Current fee achieves full cost recovery
		11	Biochemical Oxygen Demand (BOD)	\$42.60	\$37.70	y	\$42.60	0.0%	Current fee achieves full cost recovery
		12	Volatile Acid	\$42.15	\$37.30	y	\$42.15	0.0%	Current fee achieves full cost recovery
			<u>Microbiology Tests:</u>						
510250	45519	13	Total Coliform/E coli - Presence/Absence	\$29.04	\$26.30	y	\$29.72	2.3%	To achieve full cost recovery
510250	45519	14	Total Coliform/E coli - MPN	\$28.00	\$28.70	y	\$32.43	2.5%	To achieve full cost recovery
510250	45519	15	EC - MPN	\$32.32	\$28.70	y	\$32.43	0.3%	To achieve full cost recovery
510250	45519	16	Heterotrophic Plate Count	\$30.17	\$26.90	y	\$30.40	0.7%	To achieve full cost recovery
510250	45519	17	Micro Examination	\$155.15	\$143.90	y	\$162.61	4.8%	To achieve full cost recovery
510250	45519	18	Microcystin	\$581.95	\$515.00	y	\$581.95	0.0%	Current fee achieves full cost recovery
			<u>Metals:</u>						
510250	45519	18	ICP OES						
		18a)	ICP OES Scan (Wastewater)	\$65.77	\$60.30	y	\$68.14	3.6%	To achieve full cost recovery
		18b)	Total Phosphorous	\$31.30	\$27.70	y	\$31.30	0.0%	Current fee achieves full cost recovery
		18c)	Total Dissolved Phosphorous	\$31.30	\$27.70	y	\$31.30	0.0%	Current fee achieves full cost recovery
510250	45519	19	ICP MS						
		19a)	ICP MS Scan	\$65.77	\$60.30	y	\$68.14	3.6%	To achieve full cost recovery
510250	45519	20	AA						
		20a)	Mercury	\$51.64	\$45.70	y	\$51.64	0.0%	Current fee achieves full cost recovery
510250	45519	21	Organics						
		21a)	Caffeine	\$140.80	\$130.90	y	\$147.92	5.1%	To achieve full cost recovery
510250	45519	22	Additional Fees						
		22a)	Weekend surcharge	\$113.00	\$100.00	y	\$113.00	0.0%	Current fee achieves full cost recovery

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2021 PROPOSED USER FEES AND CHARGES

PUBLIC WORKS
HAMILTON WATER

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				ENVIRONMENTAL MONITORING & ENFORCEMENT To Regulate the Discharge of any Matter into the Sanitary, Combined, and Storm Sewer Systems.						
14-090	516175	47232	1	Annual Permit to Discharge Hauled Sewage Note: Cost for administration and processing of annual permits required to haul sewage within Hamilton	\$329.00	\$329.00	n	\$329.00	0.0%	Current fee achieves full cost recovery
			2	Discharge fees for Hauled Sewage generated: Inside the City - Compliant Note: Cost per truck full of sewage containing materials within Sewer Use By-law limits						
14-090	516175	41314	2a)	up to 1000 imperial gallons (4.54 m3) or any part thereof	\$50.15	\$51.15	n	\$51.15	2.0%	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)	\$50.15	\$51.15	n	\$51.15	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	2c)	greater than 3500 (15.9 m3) but less than or equal to 5000 Imperial gallons (22.7 m3)	\$100.30	\$102.30	n	\$102.30	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	2d)	greater than 5000 (22.7 m3) but less than or equal to 8000 Imperial gallons (36.3 m3)	\$150.45	\$153.45	n	\$153.45	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	2e)	greater than 8000 (36.3 m3) but less than or equal to 10000 Imperial gallons (45.43 m3)	\$200.60	\$204.60	n	\$204.60	2.0%	Has to remain a multiple of \$51.15
			3	Discharge fees for Hauled Sewage generated: Inside the City - Non-Compliant Note: 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	\$50.15	\$51.15	n	\$51.15	2.0%	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)	\$100.30	\$102.30	n	\$102.30	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	3c)	greater than 3500 (15.9 m3) but less than or equal to 5000 Imperial gallons (22.7 m3)	\$150.45	\$153.45	n	\$153.45	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	3d)	greater than 5000 (22.7 m3) but less than or equal to 8000 Imperial gallons (36.3 m3)	\$250.75	\$255.75	n	\$255.75	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	3e)	greater than 8000 (36.3 m3) but less than or equal to 10000 Imperial gallons (45.43 m3)	\$300.90	\$306.90	n	\$306.90	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	4	Holding Tanks for Recreational Vehicles Note: 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	Overstrength Discharge Fees Note: 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)	\$0.78	\$0.80	n	\$0.80	1.5%	To achieve full cost recovery
14-090	516080	41315	5b)	Total suspended solids (charge per kg)	\$0.63	\$0.64	n	\$0.64	2.5%	To achieve full cost recovery
14-090	516080	41315	5c)	Oil & grease (animal/vegetable) (charge per kg)	\$0.44	\$0.45	n	\$0.45	2.3%	Decrease reflecting rate review
14-090	516080	41315	5d)	Total Kjeldahl Nitrogen (charge per kg)	\$1.00	\$1.02	n	\$1.02	2.0%	Decrease reflecting rate review
14-090	516080	41315	5e)	Total Phosphorus (charge per kg)	\$1.78	\$1.89	n	\$1.89	6.2%	To achieve full cost recovery
14-090	516080	41317	6	Surcharge Discharge Fee (charge per m3)	\$1.75	\$1.82	n	\$1.82	4.0%	Equal to variable wastewater rate increase

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2021 PROPOSED USER FEES AND CHARGES

**PUBLIC WORKS
HAMILTON WATER**

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			7	Application Fees for Sewer Discharge Permits NOTE: Fee to be paid upon application for Sewer Discharge Permit						
14-090	510260	45519	7a)	Application Fee	\$711.15	\$641.93	y	\$725.38	2.0%	Increase due to incorporating 7b) and 7c) fees into Application Fee Current fee achieves full cost recovery To achieve full cost recovery
14-090	510260	45519	7b)	Wastewater Characterization deposit (optional)	\$500.00	\$500.00	n	\$500.00	0.0%	
14-090	510260	45519	7c)	Amendment Fee (all permit types)	\$333.88	\$301.38	y	\$340.56	2.0%	
			8	Administrative Fees for Sewer Discharge Permits Note: Multiple permit holders pay the higher administration 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	\$435.00	n	\$435.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45532	8b)	Sanitary Discharge Permit (charged quarterly)	\$435.00	\$435.00	n	\$435.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45532	8c)	Chloride Discharge Permit (charged quarterly)	\$435.00	\$435.00	n	\$435.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45532	8d)	Compliance Discharge Permit (charged quarterly)	\$1,071.00	\$1,071.00	n	\$1,071.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45532	8e)	Conditional Discharge Permit (charged quarterly)	\$1,071.00	\$1,071.00	n	\$1,071.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45519	9	Information Requests Note: Fee per property for records search related to Sewer Use By-law historical violations	\$170.47	\$153.88	y	\$173.88	2.0%	To achieve full cost recovery
14-090	510260	45532	10	Wastewater Sampling (optional) Note: Per unit costs to conduct wastewater sampling to determine permit conditions and limits						
			10a)	Wastewater Sampling Vehicle Fee (per kilometer)	\$1.37	\$1.23	y	\$1.39	1.7%	To achieve full cost recovery
			10b)	Wastewater Sampling Equipment Fee (per day)	\$44.84	\$39.68	y	\$44.84	0.0%	Current fee achieves full cost recovery
			10c)	Wastewater Sampling Technician Fee (per hour) Mon - Fri	\$56.55	\$50.64	y	\$57.22	1.2%	To achieve full cost recovery
			10d)	Wastewater Sampling Technician Fee (per hour) Sat	\$84.82	\$75.96	y	\$85.83	1.2%	To achieve full cost recovery
			10e)	Wastewater Sampling Technician Fee (per hour) Sun	\$113.08	\$101.28	y	\$114.45	1.2%	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 \$1,071.00 per quarter).

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2020 PROPOSED USER FEES AND CHARGES

PUBLIC WORKS
HAMILTON WATER

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				ENVIRONMENTAL MONITORING & ENFORCEMENT Fees related to the Wastewater Abatement Program						
03-272	510260	45532	1	Application Fee (plus cost recovery for peer review if required)	\$423.19	\$381.99	y	\$431.65	2.0%	To achieve full cost recovery
03-272	510260	45532	2	Annual Administration Fee	\$842.19	\$760.21	y	\$859.04	2.0%	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 905-540-5190 or email sewerusebylaw@hamilton.ca

**SOURCE OF CAPITAL FINANCING
2021 to 2030 RATE PROGRAM CAPITAL BUDGET
\$(000'S)**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2021 to 2030
TOTAL RATE PROGRAM											
Capital Program	299,911	264,651	224,706	196,173	214,366	299,024	298,553	293,962	209,019	227,287	2,527,652
<u>Source of Funding</u>											
Subsidy/Other Revenue	24,246	75	75	75	105	75	75	75	75	75	24,951
Development Charges	76,962	66,548	68,449	35,554	50,711	135,868	120,960	104,291	5,987	8,727	674,057
Reserves & Other Internal Sources	25,334	25,286	21,240	10,640	640	640	640	640	640	640	86,340
Contribution from Operating	125,369	128,042	133,742	141,504	150,310	160,941	174,478	188,956	202,317	217,845	1,623,504
External Debt	48,000	44,700	1,200	8,400	12,600	1,500	2,400	-	-	-	118,800
Total	299,911	264,651	224,706	196,173	214,366	299,024	298,553	293,962	209,019	227,287	2,527,652

**CITY OF HAMILTON
2021 - 2030 WATER / WASTEWATER / STORM CAPITAL FINANCING PLAN
(\$'s)**

	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2021 - 2030</u>
NET EXPENDITURES FORECAST												
WASTEWATER (NET)	69,573,000	85,937,984	74,224,000	43,873,000	43,978,000	55,168,000	58,610,675	65,134,599	79,927,190	60,178,000	74,363,000	641,394,448
WATER (NET)	50,296,000	69,798,000	79,433,865	67,894,186	76,535,842	89,237,230	81,595,000	69,138,571	71,923,359	105,623,716	112,677,376	823,857,145
STORM (NET)	15,685,000	17,632,679	19,084,321	23,175,000	29,390,000	18,505,000	22,235,000	42,605,000	37,105,000	36,515,000	30,805,000	277,052,000
TOTAL NET EXPENDITURES	135,554,000	173,368,663	172,742,186	134,942,186	149,903,842	162,910,230	162,440,675	176,878,170	188,955,549	202,316,716	217,845,376	1,742,303,593
SOURCE OF FINANCING												
DEBT ISSUES	16,900,000	48,000,000	44,700,000	1,200,000	8,400,000	12,600,000	1,500,000	2,400,000	0	0	0	118,800,000
TRANSFER FROM OPERATING	118,654,000	125,368,663	128,042,186	133,742,186	141,503,842	150,310,230	160,940,675	174,478,170	188,955,549	202,316,716	217,845,376	1,623,503,593
TOTAL CAPITAL FINANCING	135,554,000	173,368,663	172,742,186	134,942,186	149,903,842	162,910,230	162,440,675	176,878,170	188,955,549	202,316,716	217,845,376	1,742,303,593
OPERATING BUDGET IMPACT												
TRANSFER FROM OPERATING	118,654,000	125,368,663	128,042,186	133,742,186	141,503,842	150,310,230	160,940,675	174,478,170	188,955,549	202,316,716	217,845,376	1,623,503,593
DC EXEMPTION FUNDING	8,000,000	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)	19,682,108	20,534,486	26,956,235	31,417,224	34,350,771	36,299,423	36,508,591	34,888,656	32,417,324	32,142,594	29,390,165	314,905,469
TOTAL CAPITAL FINANCING COSTS	146,336,108	154,903,149	163,998,421	174,159,410	184,854,613	195,609,653	206,449,266	218,366,826	230,372,873	243,459,310	256,235,541	2,028,409,062

CITY OF HAMILTON 2021-2030 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
	\$	\$	\$	\$	\$	\$	\$
2021	299,911	299,911	24,246	76,962	25,334	125,369	48,000
2022	281,549	264,651	75	66,548	25,286	128,042	44,700
2023	231,112	224,706	75	68,449	21,240	133,742	1,200
2024-2030	1,589,840	1,738,384	555	462,098	14,480	1,236,351	24,900
TOTAL	2,402,412	2,527,652	24,951	674,057	86,340	1,623,504	118,800

**SOURCE OF CAPITAL FINANCING
2021 to 2030 RATE PROGRAM CAPITAL BUDGET
\$(000'S)**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2021 to 2030
WATER											
Capital Program	103,408	121,980	128,281	103,993	132,601	119,078	93,014	79,275	106,464	117,377	1,105,471
<u>Source of Funding</u>											
Subsidy/Other Revenue	1,681	-	-	-	30	-	-	-	-	-	1,711
Development Charges	24,914	31,906	49,647	26,817	42,694	36,843	23,235	6,712	200	4,060	247,028
Reserves & Other Internal Sources	7,015	10,640	10,740	640	640	640	640	640	640	640	32,875
Contribution from Operating	50,498	62,234	67,894	68,136	76,637	80,095	69,139	71,923	105,624	112,677	764,857
External Debt	19,300	17,200	-	8,400	12,600	1,500	-	-	-	-	59,000
Total	103,408	121,980	128,281	103,993	132,601	119,078	93,014	79,275	106,464	117,377	1,105,471

City of Hamilton
Water System
2021 Capital Budget Project List
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
Annual Projects														
City Wide	4032114405	Contaminated Soil & Rock Disposal Program		250	-	-	-	-	-	-	-	250	250	-
City Wide	4032158001	Consultation and Accommodation		30	-	-	-	-	-	-	-	30	30	-
City Wide	5142101099	Engineering Services Staffing Costs - Water		4,700	-	-	-	-	-	-	-	4,700	4,700	-
City Wide	5142160711	PW Capital Water Consumption Program		250	-	-	-	-	-	-	-	250	250	-
<i>Sub-Total Annual Projects</i>				5,230	-	-	-	-	-	-	-	5,230	5,230	-
Coordinated - Network Extension Projects														
15	5142171308	East-West Road Corridor (Waterdown By-Pass)	*	1,200	-	-	1,140	-	-	-	-	60	60	-
12	5142171328	Southcote - Garner to Highway 403 Bridge		160	-	-	80	-	-	-	-	80	80	-
11	5142171352	Airport Lands - Dickenson Rd - Upper James to Upper centennial PKWY		1,800	-	-	-	-	-	-	-	1,800	1,800	-
11	5142180183	Binbrook - Royal Winter/Binhaven to Fletcher	*	630	-	-	630	-	-	-	-	-	-	-
<i>Sub-Total Coordinated - Network Extension Projects</i>				3,790	-	-	1,850	-	-	-	-	1,940	1,940	-
Coordinated - Replacement Projects														
2	5141970012	Sheaffe / Park / Mulberry (Central Neighbourhood (North)) - Coordinated Road Restoration		200	-	-	-	-	-	-	-	200	200	-
2	5141971312	Sheaffe / Park / Mulberry (Central Neighbourhood (North))		1,240	-	-	-	-	-	-	-	1,240	1,240	-
4	5142071315	Delena / Beland / Dunsmore		1,140	-	-	-	-	-	-	-	1,140	1,140	-
2	5142170004	Strachan - James to east end - Coordinated Road Restoration		430	-	-	-	-	-	-	-	430	430	-
13	5142170011	Highway 8 - Bond to Woodleys Lane - Coordinated Road Restoration		830	-	-	-	-	-	-	-	830	830	-
4	5142170015	Delena / Beland / Dunsmore - Coordinated Road Restoration		930	-	-	-	-	-	-	-	930	930	-
1	5142171303	Marion - Longwood to Dromore		50	-	-	-	-	-	-	-	50	50	-
2	5142171304	Strachan - James to east end		600	-	-	-	-	-	-	-	600	600	-
8	5142171309	Inverness Court & Arcade Crescent (within Southam Neighbourhood)		150	-	-	-	-	-	-	-	150	150	-
4	5142171310	Barton - Parkdale to Talbot		1,080	-	-	-	-	-	-	-	1,080	1,080	-
13	5142171311	Highway 8 - Bond to Woodleys Lane		800	-	-	-	-	-	-	-	800	800	-
<i>Sub-Total Coordinated - Replacement Projects</i>				7,450	-	-	-	-	-	-	-	7,450	7,450	-
Coordinated Projects														
City Wide	5141855777	Water infrastructure Analysis - Growth and Economic Opportunities		350	-	200	-	-	-	-	-	150	150	-
City Wide	5142160501	Watermain Rehabilitation/Replacement Coordinated with Development		1,000	-	-	-	-	-	-	-	1,000	1,000	-
<i>Sub-Total Coordinated Projects</i>				1,350	-	200	-	-	-	-	-	1,150	1,150	-
Demolition														
2	5142067420	St. Joseph's Tank Pulsation Dampener (HD002STK)		110	-	-	-	-	-	-	-	110	110	-
<i>Sub-Total Demolition</i>				110	-	-	-	-	-	-	-	110	110	-
Equipment Replacement														
City Wide	5141966151	SCADA Maintenance Program		150	-	-	-	-	-	-	-	150	150	-
<i>Sub-Total Equipment Replacement</i>				150	-	-	-	-	-	-	-	150	150	-
Information Management Development														
City Wide	5142257000	Vertical Asset Management Program		280	-	-	-	-	-	-	-	280	280	-
<i>Sub-Total Information Management Development</i>				280	-	-	-	-	-	-	-	280	280	-
Master Plan - Horizontal Assets														
13, 15	5141796752	PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	*	430	-	-	322	-	-	-	-	108	108	-
11	5141996951	Binbrook Feedermain via Fletcher (W-30)	*	3,870	-	-	3,870	-	-	-	-	-	-	-
11	5142096250	Airport Lands External Water Servicing (Feedermain) (W-27)	*	7,170	-	1,481	5,689	-	-	-	-	-	-	-
<i>Sub-Total Master Plan - Horizontal Assets</i>				11,470	-	1,481	9,881	-	-	-	-	108	108	-
Master Plan - Vertical Assets														

City of Hamilton
Water System
2021 Capital Budget Project List
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
12	5141395354	PD18 (Ancaster) Water Servicing Strategy (W-14) (CASH FLOWED)	*	800	-	-	400	-	-	-	-	400	400	-
13	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (M-FM)	*	390	-	-	292	-	-	-	-	98	98	-
13	5141695883	PS HD016 (York and Valley) Capacity Upgrade, Standby Power & Building Expansion (W-28) (CASH FLOWED)	*	1,400	-	-	1,260	-	-	-	-	140	140	-
5	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	*	14,080	-	-	10,560	-	-	-	-	3,520	20	3,500
<i>Sub-Total Master Plan - Vertical Assets</i>				16,670	-	-	12,512	-	-	-	-	4,158	658	3,500
Outstations-Sustainable Asset Mgt (SAM)														
1	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning		250	-	-	-	-	-	-	-	250	250	-
8	5141567520	Stone Church/Garth Water (HDR05) Reservoir		2,975	-	-	-	-	-	-	-	2,975	75	2,900
12	5141667421	Glancaster Rd & Hwy 53 Pumping Station (HD018) Upgrades (CASH FLOWED)		5,900	-	-	-	-	-	-	-	5,900	-	5,900
14	5141767650	New Greensville Communal Well		170	-	-	-	-	-	-	-	170	170	-
15	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)		440	-	-	-	-	-	-	-	440	440	-
4, 10	5141967375	HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades		1,610	-	-	-	-	-	-	-	1,610	1,610	-
12	5142067450	Lee Smith Reservoir (HDR00) Upgrades		830	-	-	-	-	-	-	-	830	830	-
15	5142166608	Lynden Water System - Phase 2 Treatment		610	-	-	-	-	-	-	-	610	610	-
12	5142167420	HDR18 Glancaster Reservoir Upgrades		440	-	-	-	-	-	-	-	440	440	-
13	5142167421	HDR11 Woodley Lane Reservoir Upgrades		1,600	-	-	-	-	-	-	-	1,600	1,600	-
City Wide	5142167752	Water Outstation Inspections - Asset Management		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Outstations-Sustainable Asset Mgt (SAM)</i>				15,325	-	-	-	-	-	-	-	15,325	6,525	8,800
Plans/Studies														
City Wide	5142155247	Alterations to the Drinking Water System		150	-	-	-	-	-	-	-	150	150	-
<i>Sub-Total Plans/Studies</i>				150	-	-	-	-	-	-	-	150	150	-
Plant - Sustainable Asset Mgt (SAM)														
4	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)		2,470	-	-	-	-	-	-	-	2,470	370	2,100
City Wide	5142066310	WTP Pre-Treatment Isolation Valves		1,650	-	-	-	-	-	-	-	1,650	1,650	-
4	5142166110	Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)		1,378	-	-	671	-	-	-	-	707	707	-
<i>Sub-Total Plant - Sustainable Asset Mgt (SAM)</i>				5,498	-	-	671	-	-	-	-	4,827	2,727	2,100
Plant - Water Quality Initiatives (WQI)														
City Wide	5142169075	City Environmental Lab Improvements Program		275	-	-	-	-	-	275	-	-	-	-
<i>Sub-Total Plant - Water Quality Initiatives (WQI)</i>				275	-	-	-	-	-	275	-	-	-	-
Pumping Station														
10	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station		720	-	-	-	-	-	-	-	720	720	-
<i>Sub-Total Pumping Station</i>				720	-	-	-	-	-	-	-	720	720	-
Rehabilitation Project														
City Wide	5142157626	Critical Watermain Inspection Program		600	-	-	-	-	-	-	-	600	600	-
City Wide	5142157627	Pipeline 38/28 Trunkmain Inspection		500	-	-	-	-	-	-	-	500	500	-
1, 2	5142160073	Structural Watermain Lining - Charlton Ave 750mm		150	-	-	-	-	-	-	-	150	150	-
City Wide	5142160074	Watermain CIPP Urgent and Sensitive Crossings		800	-	-	-	-	-	-	-	800	800	-
City Wide	5142160750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program		3,000	-	-	-	-	-	-	-	3,000	3,000	-
City Wide	5142161502	Water Meter - Installation/Replacement/Repair - General Maintenance		3,400	-	-	-	640	-	550	-	2,210	2,210	-
<i>Sub-Total Rehabilitation Project</i>				8,450	-	-	-	640	-	550	-	7,260	7,260	-
Replacement Project														
City Wide	5142160080	Valve Replacement Program		1,200	-	-	-	-	-	-	-	1,200	1,200	-
7	5142161301	Edwina - Lawson to Berko & Berko - Edwina to Lawfield		330	-	-	-	-	-	-	-	330	330	-
3	5142161304	Robert - Victoria to Emerald		430	-	-	-	-	-	-	-	430	430	-

City of Hamilton
Water System
2021 Capital Budget Project List
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources		
													From Operating	Debt	
3	5142161305	Fraser - Edinburgh to Campbell		160	-	-	-	-	-	-	-	160	160	-	
3	5142161306	Afton - Cedar to Balsam		160	-	-	-	-	-	-	-	160	160	-	
2	5142161307	Mulberry - Bay to James		990	-	-	-	-	-	70	-	920	920	-	
City Wide	5142171074	Contingency for Unscheduled Works Program		180	-	-	-	-	-	-	-	180	180	-	
<i>Sub-Total Replacement Project</i>				3,450	-	-	-	-	-	70	-	3,380	3,380	-	
Restorations															
City Wide	5142111101	Road Cut Restoration Program		5,400	-	-	-	-	-	2,110	-	3,290	3,290	-	
<i>Sub-Total Restorations</i>				5,400	-	-	-	-	-	2,110	-	3,290	3,290	-	
Technical Services Projects															
City Wide	4031957944	PW Asset Management (PW-AM) System Implementation - CASH FLOW		1,420	-	-	-	-	-	-	-	1,420	1,420	-	
City Wide	4032055588	O.Reg. 588/17 Compliance - Asset Management Plan Development		50	-	-	-	-	-	-	-	50	50	-	
City Wide	4032155522	State of the Infrastructure - Asset Management		50	-	-	-	-	-	-	-	50	50	-	
City Wide	5141555555	Ctiy Wide Groundwater Model		450	-	-	-	-	-	-	-	450	450	-	
City Wide	5142149555	QA-QC Service Contract Program		150	-	-	-	-	-	-	-	150	150	-	
City Wide	5142155022	Engineering Consultant Watermain Projects		300	-	-	-	-	-	-	-	300	300	-	
4, 5	5142155122	Woodward-Greenhill Transmission Main Inspection		800	-	-	-	-	-	-	-	800	800	-	
City Wide	5142155556	Mapping Update Program		40	-	-	-	-	-	-	-	40	40	-	
City Wide	5142157545	Water - Computer Model		170	-	-	-	-	-	-	-	170	170	-	
City Wide	5142160577	Metallic Watermain Condition Assessment Program		630	-	-	-	-	-	-	-	630	630	-	
<i>Sub-Total Technical Services Projects</i>				4,060	-	-	-	-	-	-	-	4,060	4,060	-	
Upgrade Projects															
2	5142161302	Jackson - Catherine to Walnut		210	-	-	-	-	-	-	-	210	210	-	
City Wide	5142162073	Field Data Systems Program		110	-	-	-	-	-	-	-	110	110	-	
City Wide	5142162078	Substandard Water Service Replacement Program		2,750	-	-	-	-	-	-	-	2,750	2,750	-	
<i>Sub-Total Upgrade Projects</i>				3,070	-	-	-	-	-	-	-	3,070	3,070	-	
Vehicles-New															
City Wide	5142151110	Fleet Additions		1,760	-	-	-	-	-	600	-	1,160	1,160	-	
<i>Sub-Total Vehicles-New</i>				1,760	-	-	-	-	-	600	-	1,160	1,160	-	
Water Quality Initiatives (WQI)															
City Wide	5162168777	Chedoke Creek Water Quality Improvements		1,050	-	-	-	-	-	-	-	1,050	1,050	-	
<i>Sub-Total Water Quality Initiatives (WQI)</i>				1,050	-	-	-	-	-	-	-	1,050	1,050	-	
Watermain Lining															
City Wide	5142160072	Watermain Structural Lining		7,700	-	-	-	-	-	2,770	-	4,930	30	4,900	
<i>Sub-Total Watermain Lining</i>				7,700	-	-	-	-	-	2,770	-	4,930	30	4,900	
Total All Projects				103,408	-	1,681	24,914	640	-	6,375	-	69,798	50,498	19,300	

*DC Debt

**CITY OF HAMILTON
WATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Rehabilitation, Replacement, & Upgrade Programs (SAM)																
City Wide	4031957944	PW Asset Management (PW-AM) System Implementation	1,750	0	1,420	1,420	1,520	1,520	1,760	1,760	300	300	6,750	5,000	2019	2024
City Wide	4032055588	O.Reg. 588/17 Compliance - Asset Management Plan Development	75	0	50	50	50	50	50	50	0	0	225	150	2020	2023
City Wide	4032114405	Contaminated Soil & Rock Disposal Program	0	0	250	250	0	0	0	0	750	750	1,000	1,000	2021	Ongoing
City Wide	4032155522	State of the Infrastructure - Asset Management	0	0	50	50	90	90	90	90	630	630	860	860	2021	Ongoing
City Wide	4032158001	Consultation and Accommodation	0	0	30	30	30	30	30	30	210	210	300	300	2021	Ongoing
City Wide	5141555555	Ctiy Wide Groundwater Model	470	80	450	450	0	0	0	0	0	0	920	530	2015	2021
4	5141641226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	1,250	2,250	0	0	0	0	2,500	2,500	5,000	5,000	8,750	9,750	2016	2024
City Wide	5142066350	WTP Chlorine Chemical Building	2,250	0	0	0	6,430	6,430	6,430	6,430	0	0	15,110	12,860	2020	2022
City Wide	5142071940	Unspecified Water Works	0	0	0	0	0	0	0	0	0	0	0	0	2020	2024
City Wide	5142101099	Engineering Services Staffing Costs - Water	0	0	4,700	4,700	4,700	4,700	4,700	4,700	32,900	32,900	47,000	47,000	2021	Ongoing
City Wide	5142111101	Road Cut Restoration Program	0	0	5,400	3,290	5,400	5,400	5,400	5,400	37,800	37,800	54,000	51,890	2021	Ongoing
City Wide	5142149555	QA-QC Service Contract Program	0	0	150	150	150	150	150	150	1,050	1,050	1,500	1,500	2021	Ongoing
City Wide	5142151110	Fleet Additions	0	0	1,760	1,160	390	390	460	460	720	720	3,330	2,730	2021	Ongoing
City Wide	5142155022	Engineering Consultant Watermain Projects	0	0	300	300	300	300	300	300	2,100	2,100	3,000	3,000	2021	Ongoing
4, 5	5142155122	Woodward-Greenhill Transmission Main Inspection	0	0	800	800	0	0	0	0	0	0	800	800	2021	2021
City Wide	5142155556	Mapping Update Program	0	0	40	40	40	40	40	40	280	280	400	400	2019	Ongoing
City Wide	5142155851	Water Efficiency Plan/Program	0	0	0	0	115	115	117	117	902	902	1,134	1,134	2021	Ongoing
City Wide	5142157545	Water - Computer Model	0	0	170	170	280	280	280	280	1,960	1,960	2,690	2,690	2021	Ongoing
City Wide	5142157626	Critical Watermain Inspection Program	0	0	600	600	600	600	600	600	4,200	4,200	6,000	6,000	2021	Ongoing
City Wide	5142157627	Pipeline 38/28 Trunkmain Inspection	0	0	500	500	0	0	0	0	0	0	500	500	2021	2021
1, 2	5142160073	Structural Watermain Lining - Charlton Ave 750mm	0	0	150	150	2,200	2,200	0	0	0	0	2,350	2,350	2021	2022
City Wide	5142160074	Watermain CIPP Urgent and Sensitive Crossings	0	0	800	800	0	0	0	0	0	0	800	800	2021	2021

**CITY OF HAMILTON
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Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Rehabilitation, Replacement, & Upgrade Programs (SAM)																
City Wide	5142160080	Valve Replacement Program	0	0	1,200	1,200	1,200	1,200	1,200	1,200	8,400	8,400	12,000	12,000	2021	Ongoing
City Wide	5142160577	Metallic Watermain Condition Assessment Program	0	0	630	630	630	630	630	630	4,410	4,410	6,300	6,300	2021	Ongoing
City Wide	5142160711	PW Capital Water Consumption Program	0	0	250	250	250	250	250	250	1,750	1,750	2,500	2,500	2021	Ongoing
City Wide	5142160750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	0	0	3,000	3,000	2,500	2,500	2,500	2,500	14,000	14,000	22,000	22,000	2021	Ongoing
City Wide	5142161300	Stand-Alone Watermain Replacement	0	0	0	0	0	0	0	0	3,500	3,500	3,500	3,500	2024	Ongoing
7	5142161301	Edwina - Lawson to Berko & Berko - Edwina to Lawfield	0	0	330	330	0	0	0	0	0	0	330	330	2021	2021
2	5142161302	Jackson - Catherine to Walnut	0	0	210	210	0	0	0	0	0	0	210	210	2021	2021
3	5142161304	Robert - Victoria to Emerald	0	0	430	430	0	0	0	0	0	0	430	430	2021	2021
3	5142161305	Fraser - Edinburgh to Campbell	0	0	160	160	0	0	0	0	0	0	160	160	2021	2021
3	5142161306	Afton - Cedar to Balsam	0	0	160	160	0	0	0	0	0	0	160	160	2021	2021
2	5142161307	Mulberry - Bay to James	0	0	990	920	0	0	0	0	0	0	990	920	2021	2021
City Wide	5142161502	Water Meter - Installation/Replacement/Repair - General Maintenance	0	0	3,400	2,210	4,270	3,630	4,360	3,720	26,860	22,380	38,890	31,940	2021	Ongoing
City Wide	5142162073	Field Data Systems Program	0	0	110	110	110	110	110	110	770	770	1,100	1,100	2021	Ongoing
City Wide	5142162078	Substandard Water Service Replacement Program	0	0	2,750	2,750	2,750	2,750	2,750	2,750	14,000	14,000	22,250	22,250	2021	Ongoing
City Wide	5142171074	Contingency for Unscheduled Works Program	0	0	180	180	0	0	180	180	540	540	900	900	2021	Ongoing
City Wide	5142257000	Vertical Asset Management Program	0	0	280	280	280	280	0	0	0	0	560	560	2022	2022
1	5142461301	Amelia - Queen to West End	0	0	0	0	0	0	0	0	540	540	540	540	2024	2024
1	5142461302	Bold - Queen to Locke	0	0	0	0	0	0	0	0	700	700	700	700	2024	2024
7	5142461304	Dallas - Upper Gage to West End	0	0	0	0	0	0	0	0	600	600	600	600	2024	2024
2	5142461305	James and Charlton Intersection	0	0	0	0	0	0	0	0	900	900	900	900	2024	2024
3	5142461306	Myler - Sanford to Milton/Milton - Barton to Princess	0	0	0	0	0	0	0	0	450	450	450	450	2024	2024
3	5142561301	Edward - Barnesdale to Lottridge	0	0	0	0	0	0	0	0	340	340	340	340	2025	2025

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Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Rehabilitation, Replacement, & Upgrade Programs (SAM)																
2	5142561302	Hess - Markland to Aberdeen	0	0	0	0	0	0	0	0	430	430	430	430	2025	2025
15	5142561303	Dundas - Dennis to 250 w/o Clappison	0	0	0	0	0	0	0	0	1,650	1,650	1,650	1,650	2025	2026
2	5142561304	John - Cannon to Barton	0	0	0	0	0	0	0	0	760	760	760	760	2025	2025
2	5142661301	Robinson - Hess to Park	0	0	0	0	0	0	0	0	950	950	950	950	2026	2026
3	5142761301	Clinton\Case\Ruth\Barnesdale	0	0	0	0	0	0	0	0	1,740	1,740	1,740	1,740	2027	2027
4	5142761302	Edgemont - Main to King	0	0	0	0	0	0	0	0	660	660	660	660	2027	2028
2	5142861303	Caroline - Herkimer to Robinson	0	0	0	0	0	0	0	0	400	400	400	400	2028	2028
			5,795	2,330	31,700	27,730	34,285	33,645	34,887	34,247	173,152	168,672	279,819	266,624		
Projects Coordinated with Roads Program																
2	5141970012	Sheaffe / Park / Mulberry (Central Neighbourhood (North)) - Coordinated Road Restoration	910	910	200	200	0	0	0	0	0	0	1,110	1,110	2019	2021
2	5141971312	Sheaffe / Park / Mulberry (Central Neighbourhood (North))	1,050	0	1,240	1,240	0	0	0	0	0	0	2,290	1,240	2019	2021
4	5142071315	Delena / Beland / Dunsmore	150	0	1,140	1,140	0	0	0	0	0	0	1,290	1,140	2020	2021
City Wide	5142170000	Coordinated Road and Subsurface Works	0	0	0	0	0	0	0	0	8,940	8,940	8,940	8,940	2021	Ongoing
2	5142170004	Strachan - James to east end - Coordinated Road Restoration	0	0	430	430	0	0	0	0	0	0	430	430	2021	2021
13	5142170011	Highway 8 - Bond to Woodleys Lane - Coordinated Road Restoration	0	0	830	830	0	0	0	0	0	0	830	830	2021	2021
4	5142170015	Delena / Beland / Dunsmore - Coordinated Road Restoration	0	0	930	930	0	0	0	0	0	0	930	930	2021	2021
3	5142170022	Barton - Sherman to Ottawa - Coordinated Road Restoration	0	0	0	0	2,200	2,200	0	0	0	0	2,200	2,200	2021	2021
City Wide	5142171301	Watermain Replacement Coordinated with Roads	0	0	0	0	0	0	0	0	14,730	14,730	14,730	14,730	2021	Ongoing
1	5142171303	Marion - Longwood to Dromore	0	0	50	50	380	380	0	0	0	0	430	430	2021	2022
2	5142171304	Strachan - James to east end	0	0	600	600	0	0	0	0	0	0	600	600	2021	2021
8	5142171309	Inverness Court & Arcade Crescent (within Southam Neighbourhood)	0	0	150	150	0	0	0	0	0	0	150	150	2021	2021
4	5142171310	Barton - Parkdale to Talbot	0	0	1,080	1,080	0	0	0	0	0	0	1,080	1,080	2021	2021

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Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Projects Coordinated with Roads Program																
13	5142171311	Highway 8 - Bond to Woodleys Lane	0	0	800	800	0	0	0	0	0	0	800	800	2021	2021
1	5142270003	Marion - Longwood to Dromore - Coordinated Road Restoration	0	0	0	0	480	480	0	0	0	0	480	480	2022	2022
13	5142270005	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD) - Coord Rd Restoration	0	0	0	0	910	910	0	0	0	0	910	910	2020	2022
5	5142270006	Kelvin - Old Orchard to south end - Coordinated Road Restoration	0	0	0	0	100	100	0	0	0	0	100	100	2022	2022
6	5142270008	Concession / Mountain Brow - Upper Gage to Oakcrest - Coordinated Road Restoration	0	0	0	0	1,800	1,800	0	0	0	0	1,800	1,800	2022	2022
4	5142270012	Strathearne - Main to Britannia - Coordinated Road Restoration	0	0	0	0	600	600	0	0	0	0	600	600	2022	2022
13	5142271305	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	0	0	0	0	1,000	1,000	0	0	0	0	1,000	1,000	2020	2022
5	5142271306	Kelvin - Old Orchard to south end	0	0	0	0	100	100	0	0	0	0	100	100	2022	2022
6	5142271308	Concession / Mountain Brow - Upper Gage to Oakcrest	0	0	0	0	2,200	2,200	0	0	0	0	2,200	2,200	2022	2022
4	5142271312	Strathearne - Main to Britannia	0	0	0	0	900	900	0	0	0	0	900	900	2022	2022
7	5142271318	Eastmount Neighbourhood - Water	0	0	0	0	160	160	0	0	0	0	160	160	2022	2022
3	5142271322	Barton - Sherman to Ottawa	0	0	0	0	5,500	5,500	0	0	0	0	5,500	5,500	2022	2022
13	5142370004	Hatt & Bond - King to Market - Coordinated Road Restoration	0	0	0	0	0	0	920	920	0	0	920	920	2023	2023
4	5142370005	Barton - Ottawa to Kenilworth - Coordinated Road Restoration	0	0	0	0	0	0	600	600	0	0	600	600	2023	2023
14	5142370008	Scenic - Chateau Crt to Upper Paradise - Coordinated Road Restoration	0	0	0	0	0	0	1,950	1,950	0	0	1,950	1,950	2023	2023
10	5142370013	Pinelands / Teal / Garden / Community / Greensfield - Coordinated Road Restoration	0	0	0	0	0	0	1,160	1,160	0	0	1,160	1,160	2023	2023
4	5142370015	Strathearne - Brampton to gate at north end - Coordinated Road Restoration	0	0	0	0	0	0	1,350	1,350	0	0	1,350	1,350	2023	2023
13	5142371304	Hatt & Bond - King to Market	0	0	0	0	0	0	800	800	0	0	800	800	2023	2023

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Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Projects Coordinated with Roads Program																
4	5142371305	Barton - Ottawa to Kenilworth	0	0	0	0	0	0	4,040	4,040	0	0	4,040	4,040	2023	2023
2	5142371307	Duke - Hess to west end & Robinson - Queen to west end	0	0	0	0	0	0	50	50	300	300	350	350	2023	2024
14	5142371308	Scenic - Chateau Crt to Upper Paradise	0	0	0	0	0	0	1,650	1,650	0	0	1,650	1,650	2023	2023
10	5142371313	Pinelands / Teal / Garden / Community / Greensfield	0	0	0	0	0	0	1,790	1,790	0	0	1,790	1,790	2023	2023
4	5142371315	Strathearne - Brampton to gate at north end	0	0	0	0	0	0	800	800	0	0	800	800	2023	2023
3	5142470002	Burlington & Industrial - Birch to Gage - Coordinated Road Restoration	0	0	0	0	0	0	0	0	2,000	2,000	2,000	2,000	2024	2024
2	5142470004	Ferguson/Foster/Walnut/Patrick - Coordinated Road Restoration	0	0	0	0	0	0	0	0	150	150	150	150	2024	2024
8	5142470005	Upper James - Mohawk to Fennell - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,650	1,650	1,650	1,650	2024	2024
2	5142470007	Duke - Hess to west end & Robinson - Queen to west end - Coordinated Road Restoration	0	0	0	0	0	0	0	0	230	230	230	230	2023	2024
13	5142470008	Hatt - Market to east end & York / Kerr - Coordinated Road Restoration	0	0	0	0	0	0	0	0	960	960	960	960	2024	2024
1	5142470013	Westdale North Neighbourhood Phase 1 - Coordinated Road Restoration	0	0	0	0	0	0	0	0	3,780	3,780	3,780	3,780	2024	2024
8	5142470024	Fennell - Upper James to Upper Wellington - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,100	1,100	1,100	1,100	2024	2024
3	5142471302	Burlington & Industrial - Birch to Gage	0	0	0	0	0	0	0	0	2,760	2,760	2,760	2,760	2024	2024
2	5142471304	Ferguson/Foster/Walnut/Patrick	200	0	0	0	0	0	0	0	1,710	1,710	1,910	1,710	2024	2024
8	5142471305	Upper James - Mohawk to Fennell	0	0	0	0	0	0	0	0	3,010	3,010	3,010	3,010	2024	2024
13	5142471308	Hatt - Market to east end & York / Kerr	0	0	0	0	0	0	0	0	1,000	1,000	1,000	1,000	2024	2024
1	5142471313	Westdale North Neighbourhood Phase 1	0	0	0	0	0	0	0	0	2,000	2,000	2,000	2,000	2024	2024
8	5142471324	Fennell - Upper James to Upper Wellington	0	0	0	0	0	0	0	0	640	640	640	640	2024	2024
15	5142472304	Bridge 451 - Hwy 5 E, 120m e/o Mill St S	0	0	0	0	0	0	0	0	140	140	140	140	2024	2024

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Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Projects Coordinated with Roads Program																
3	5142570002	Wentworth - Barton to Burlington - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,250	1,250	1,250	1,250	2025	2025
12, 14	5142570007	Rymal - Glancaster to Upper Paradise - Coordinated Road Restoration	0	0	0	0	0	0	0	0	900	900	900	900	2025	2025
12	5142570008	Southcote - Hwy 403 bridge to Oldoakes /Dorval - Coordinated Road Restoration	0	0	0	0	0	0	0	0	210	210	210	210	2023	2025
3	5142570009	Wilson - Wentworth to Sherman - Coordinated Road Restoration	0	0	0	0	0	0	0	0	920	920	920	920	2025	2025
1	5142570012	Aberdeen - Queen to Studholme - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,770	1,770	1,770	1,770	2025	2026
2, 3	5142570013	Barton St BIA - Wentworth to Sherman - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,100	1,100	1,100	1,100	2025	2025
4	5142570014	Brampton - Parkdale to Woodward & Brighton - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,270	1,270	1,270	1,270	2025	2025
3	5142571309	Wilson - Wentworth to Sherman	0	0	0	0	0	0	0	0	810	810	810	810	2025	2025
1	5142571312	Aberdeen - Queen to Studholme	0	0	0	0	0	0	0	0	3,050	3,050	3,050	3,050	2025	2026
2, 3	5142571313	Barton St BIA - Wentworth to Sherman	0	0	0	0	0	0	0	0	2,700	2,700	2,700	2,700	2025	2025
4	5142571314	Brampton - Parkdale to Woodward & Brighton	0	0	0	0	0	0	0	0	800	800	800	800	2025	2025
1	5142670005	Dundurn - CPR bridge (s/o Main St) to King - Coordinated Road Restoration	0	0	0	0	0	0	0	0	560	560	560	560	2026	2026
2, 3	5142670007	Barton St BIA - Ferguson to Wentworth - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,400	1,400	1,400	1,400	2026	2026
3	5142670010	Oak/Emerald/East Ave - Cannon to Barton - Cannon to Barton - Coordinated Road Restoration	0	0	0	0	0	0	0	0	840	840	840	840	2026	2026
13	5142670012	Cairns / East St N / Spencer / (Hunter NBHD) - Coordinated Road Restoration	0	0	0	0	0	0	0	0	510	510	510	510	2026	2026
1	5142671305	Dundurn - CPR bridge (s/o Main St) to King	0	0	0	0	0	0	0	0	430	430	430	430	2026	2026
2, 3	5142671307	Barton St BIA - Ferguson to Wentworth	0	0	0	0	0	0	0	0	3,300	3,300	3,300	3,300	2026	2026

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Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Projects Coordinated with Roads Program																
3	5142671310	Oak/Emerald/East Ave - Cannon to Barton	0	0	0	0	0	0	0	0	1,480	1,480	1,480	1,480	2026	2026
13	5142671312	Cairns / East St N / Spencer / (Hunter Neighbourhood)	0	0	0	0	0	0	0	0	600	600	600	600	2026	2026
1, 13	5142671324	Osler - South St to West Park	0	0	0	0	0	0	0	0	900	900	900	900	2026	2028
3	5142700020	Sanford - Cannon to Barton - Coordinated Road Restoration	0	0	0	0	0	0	0	0	420	420	420	420	2027	2027
4	5142770003	Burlington & Industrial - Ottawa to Kenilworth - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,590	1,590	1,590	1,590	2027	2027
3	5142770004	Sanford - Main to Cannon - Coordinated Road Restoration	0	0	0	0	0	0	0	0	630	630	630	630	2027	2027
1	5142770011	Carling / Macklin St S / Olmstead / Tope (Westdale South) - Coordinated Road Restoration	0	0	0	0	0	0	0	0	490	490	490	490	2027	2027
2, 3	5142770018	Charlton - James to Walnut - Coordinated Road Restoration	0	0	0	0	0	0	0	0	840	840	840	840	2027	2027
3, 4	5142771303	Burlington & Industrial - Ottawa to Kenilworth	100	0	0	0	0	0	0	0	2,100	2,100	2,200	2,100	2027	2027
3	5142771304	Sanford - Main to Cannon	0	0	0	0	0	0	0	0	1,350	1,350	1,350	1,350	2027	2027
1	5142771311	Carling / Macklin St S / Olmstead / Tope (Westdale South)	0	0	0	0	0	0	0	0	660	660	660	660	2027	2027
3	5142870003	Evans - Wellington to East - Coordinated Road Restoration	0	0	0	0	0	0	0	0	140	140	140	140	2028	2028
3	5142870004	Birge - Emerald to Cheever - Coordinated Road Restoration	0	0	0	0	0	0	0	0	200	200	200	200	2028	2028
1	5142870011	Jones / Oxford / Tecumseh (Strathcona Neighbourhood) - Coordinated Road Restoration	0	0	0	0	0	0	0	0	550	550	550	550	2028	2028
10	5142870017	Green - Carla to Barton - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,450	1,450	1,450	1,450	2028	2028
2, 3	5142870018	Charlton - Walnut to Sherman Access - Coordinated Road Restoration	0	0	0	0	0	0	0	0	920	920	920	920	2028	2028
1, 13	5142870024	Osler - South St to West Park - Coordinated Road Restoration	0	0	0	0	0	0	0	0	450	450	450	450	2028	2028
3	5142871303	Evans - Wellington to East	0	0	0	0	0	0	0	0	280	280	280	280	2028	2028
3	5142871304	Birge - Emerald to Cheever	0	0	0	0	0	0	0	0	240	240	240	240	2028	2028

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WATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Projects Coordinated with Roads Program																
1	5142871311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	0	0	0	0	0	0	0	0	810	810	810	810	2028	2028
1	5142970003	Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona NBHD) - Coordinated Road Restoration	0	0	0	0	0	0	0	0	640	640	640	640	2029	2029
7, 8	5142970010	Upper Wellington - Bryna to Mohawk - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,100	1,100	1,100	1,100	2029	2029
1	5142971303	Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona Neighbourhood)	0	0	0	0	0	0	0	0	720	720	720	720	2029	2029
7, 8	5142971310	Upper Wellington - Bryna to Mohawk	0	0	0	0	0	0	0	0	1,050	1,050	1,050	1,050	2029	2029
2	5143070003	Hughson - Wilson to Barton - Coordinated Road Restoration	0	0	0	0	0	0	0	0	490	490	490	490	2030	2030
3	5143070008	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore - Coordinated Road Restoration	0	0	0	0	0	0	0	0	780	780	780	780	2030	2030
5	5143070029	Nash – Barton to 350 metres north of Bancroft - Coordinated Road Restoration	0	0	0	0	0	0	0	0	960	960	960	960	2030	2030
2	5143071303	Hughson - Wilson to Barton	0	0	0	0	0	0	0	0	550	550	550	550	2030	2030
3	5143071308	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	0	0	0	0	0	0	0	0	950	950	950	950	2030	2030
			2,410	910	7,450	7,450	16,330	16,330	15,110	15,110	90,260	90,260	131,560	130,060		
Plant/Outstations Projects (SAM)																
1	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning	1,930	830	250	250	0	0	2,980	2,980	0	0	5,160	4,060	2015	2019
8	5141567520	Stone Church/Garth Water (HDR05) Reservoir	3,960	0	2,975	2,975	3,125	3,125	2,775	2,775	0	0	12,835	8,875	2015	2023
4	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	1,430	220	2,470	2,470	2,470	2,470	0	0	0	0	6,370	5,160	2015	2019
12	5141667421	Glancaster Rd & Hwy 53 Pumping Station (HD018) Upgrades (CASH FLOWED)	6,700	4,400	5,900	5,900	2,200	2,200	0	0	0	0	14,800	12,500	2016	2022

**CITY OF HAMILTON
WATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Plant/Outstations Projects (SAM)																
14	5141767650	New Greensville Communal Well	1,400	500	170	170	3,650	3,650	3,650	3,650	0	0	8,870	7,970	2017	2021
9	5141867651	HD007 Highland Rd Reservoir Upgrades	260	260	0	0	990	990	0	0	0	0	1,250	1,250	2018	2019
15	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)	440	440	440	440	6,150	6,150	0	0	0	0	7,030	7,030	2018	2022
4, 10	5141967375	HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades	7,550	0	1,610	1,610	0	0	0	0	0	0	9,160	1,610	2019	2021
City Wide	5142066310	WTP Pre-Treatment Isolation Valves	280	0	1,650	1,650	550	550	0	0	0	0	2,480	2,200	2020	2022
12	5142067450	Lee Smith Reservoir (HDR00) Upgrades	280	0	830	830	0	0	0	0	0	0	1,110	830	2020	2021
4	5142166110	Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)	0	0	1,378	707	1,378	707	2,705	1,387	140,719	72,169	146,180	74,970	2021	2028
15	5142166608	Lynden Water System - Phase 2 Treatment	0	0	610	610	0	0	0	0	0	0	610	610	2021	2022
City Wide	5142166713	Water Maintenance Capital Program	0	0	0	0	2,000	2,000	2,000	2,000	14,000	14,000	18,000	18,000	2021	Ongoing
12	5142167420	HDR18 Glancaster Reservoir Upgrades	0	0	440	440	1,430	1,430	0	0	0	0	1,870	1,870	2021	2021
13	5142167421	HDR11 Woodley Lane Reservoir Upgrades	0	0	1,600	1,600	0	0	0	0	0	0	1,600	1,600	2021	2021
City Wide	5142167751	Water Outstation Upgrades - Asset Management Program	0	0	0	0	0	0	1,500	1,500	105,000	105,000	106,500	106,500	2024	Ongoing
City Wide	5142167752	Water Outstation Inspections - Asset Management	0	0	500	500	900	900	900	900	6,300	6,300	8,600	8,600	2021	Ongoing
			24,230	6,650	20,823	20,152	24,843	24,172	16,510	15,192	266,019	197,469	352,425	263,635		
Plant/Outstations Projects (WQI)																
City Wide	5142169075	City Environmental Lab Improvements Program	0	0	275	0	340	340	190	190	390	390	1,195	920	2021	Ongoing
4	5142666510	GAC Replacement	0	0	0	0	0	0	0	0	6,810	6,810	6,810	6,810	2026	Ongoing
City Wide	5162168777	Chedoke Creek Water Quality Improvements	0	0	1,050	1,050	1,250	1,250	1,050	1,050	1,100	1,100	4,450	4,450	2021	2024
			0	0	1,325	1,050	1,590	1,590	1,240	1,240	8,300	8,300	12,455	12,180		

Master Plan - Horizontal Assets

**CITY OF HAMILTON
WATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Master Plan - Horizontal Assets																
13, 15	5141796752	PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	2,570	422	430	108	1,100	275	7,270	1,818	0	0	11,370	2,623	2017	2019
11	5141996951	Binbrook Feedermain via Fletcher (W-30)	0	0	3,870	0	2,530	0	0	0	0	0	6,400	0	2019	2020
11	5142096250	Airport Lands External Water Servicing (Feedermain) (W-27)	1,080	0	7,170	0	0	0	0	0	10,340	0	18,590	0	2020	2025
12	5142096520	Garner Road Trunk Watermain - Southcote to Wilson (W-09)	3,390	0	0	0	0	0	13,550	0	0	0	16,940	0	2020	2023
1	5142396850	Locke St Trunk Watermain - York - Locke to Cannon @ Caroline (W-19)	0	0	0	0	0	0	2,530	0	0	0	2,530	0	2023	2023
1	5142496850	Locke St Trunk Watermain - Main to York (W-19)	0	0	0	0	0	0	0	0	2,200	0	2,200	0	2024	2024
6, 9	5142596250	HD07A Feedermain (W-22)	0	0	0	0	0	0	0	0	8,860	0	8,860	0	2025	2026
			7,040	422	11,470	108	3,630	275	23,350	1,818	21,400	0	66,890	2,623		
Master Plan - Vertical Assets																
12	5141395354	PD18 (Ancaster) Water Servicing Strategy (W-14) (CASH FLOWED)	2,610	255	800	400	6,080	3,040	6,080	3,040	0	0	15,570	6,735	2013	2020
11	5141495551	PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	2,600	0	0	0	5,500	0	5,500	0	0	0	13,600	0	2014	2020
13	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	1,270	0	390	98	2,650	663	3,150	788	0	0	7,460	1,549	2015	2023
13	5141695883	PS HD016 (York and Valley) Capacity Upgrade, Standby Power & Building Expansion (W-26) (CASH FLOWED)	4,490	302	1,400	140	3,950	395	4,150	416	0	0	13,990	1,253	2016	2019
5	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	10,040	2,482	14,080	3,520	14,430	3,607	15,650	3,914	15,650	3,914	69,850	17,437	2017	2020
11	5141995951	PS HD019 (Binbrook) Capacity Upgrade (W-20)	220	0	0	0	1,800	0	0	0	0	0	2,020	0	2019	2020
City Wide	5142155010	Water Systems Planning Program	0	0	0	0	300	300	300	300	1,830	1,830	2,430	2,430	2021	Ongoing

**CITY OF HAMILTON
WATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net										
Master Plan - Vertical Assets																
9	5142495251	Highland Reservoir HDR07 (W-11) Expansion (CASH FLOWED)	0	0	0	0	0	0	0	0	12,420	0	12,420	0	2024	2026
City Wide	5142495552	P.S. HD07A - New District 7 (Elfrida area) Pumping Station (W-21)	0	0	0	0	0	0	0	0	20,300	0	20,300	0	2025	2027
City Wide	5142855264	City-Wide Water Master Plan	0	0	0	0	0	0	0	0	250	25	250	25	2028	2028
			21,230	3,039	16,670	4,158	34,710	8,005	34,830	8,458	50,450	5,769	157,890	29,429		
Development/Extension Projects																
15	5142171308	East-West Road Corridor (Waterdown By-Pass)	0	0	1,200	60	0	0	0	0	0	0	1,200	60	2021	2021
12	5142171328	Southcote - Garner to Highway 403 Bridge	0	0	160	80	2,350	1,175	0	0	0	0	2,510	1,255	2021	2022
11	5142171352	Airport Lands - Dickenson Rd - Upper James to Upper centennial PKWY	0	0	1,800	1,800	0	0	0	0	0	0	1,800	1,800	2021	2021
11	5142180183	Binbrook - Royal Winter/Binhaven to Fletcher	0	0	630	0	0	0	0	0	0	0	630	0	2021	2021
City Wide	5142196011	Intensification Infrastructure Upgrades Program - Water	0	0	0	0	0	0	400	200	1,200	600	1,600	800	2021	Ongoing
11	5142380320	RHBP - Twenty Rd Extension - Glover to Trinity Church	0	0	0	0	0	0	565	340	0	0	565	340	2023	2031
11	5142580580	RHBP - Nebo - 900m s/o Twenty to Dickenson	0	0	0	0	0	0	0	0	400	0	400	0	2025	2025
11	5142880884	RHBP - Dickenson - Nebo to 800m e/o Nebo	0	0	0	0	0	0	0	0	900	0	900	0	2028	2028
10	5143080081	South Service Rd - Millen to Dewitt	0	0	0	0	0	0	0	0	2,280	0	2,280	0	2030	2030
10	5143080380	South Service Rd - Fruitland to Jones	0	0	0	0	0	0	0	0	1,280	0	1,280	0	2030	2030
10	5143080388	Lewis - Barton to Hwy 8	0	0	0	0	0	0	0	0	500	0	500	0	2030	2030
			0	0	3,790	1,940	2,350	1,175	965	540	6,560	600	13,665	4,255		
Computer Hardware Purchases																
City Wide	5143066151	SCADA Master Plan	0	0	0	0	0	0	0	0	2,625	2,625	2,625	2,625	2030	2034
			0	0	0	0	0	0	0	0	2,625	2,625	2,625	2,625		
Coordinated Projects																

**CITY OF HAMILTON
WATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Coordinated Projects																
City Wide	5141855777	Water infrastructure Analysis - Growth and Economic Opportunities	570	220	350	150	0	0	0	0	0	0	920	370	2018	2020
City Wide	5142160501	Watermain Rehabilitation/Replacement Coordinated with Development	0	0	1,000	1,000	1,000	1,000	1,000	1,000	7,000	7,000	10,000	10,000	2021	Ongoing
			570	220	1,350	1,150	1,000	1,000	1,000	1,000	7,000	7,000	10,920	10,370		
Demolition																
2	5142067420	St. Joseph's Tank Pulsation Dampener (HD002STK)	60	0	110	110	440	440	0	0	0	0	610	550	2020	2022
			60	0	110	110	440	440	0	0	0	0	610	550		
Equipment Replacement																
City Wide	5141966151	SCADA Maintenance Program	0	0	150	150	400	400	275	275	3,300	3,300	4,125	4,125	2019	Ongoing
			0	0	150	150	400	400	275	275	3,300	3,300	4,125	4,125		
Plans/Studies																
City Wide	5142155247	Alterations to the Drinking Water System	0	0	150	150	150	150	150	150	1,050	1,050	1,500	1,500	2021	Ongoing
City Wide	5142155713	Pressure Districts and Drinking Water System Optimization	0	0	0	0	170	170	170	170	1,190	1,190	1,530	1,530	2021	Ongoing
			0	0	150	150	320	320	320	320	2,240	2,240	3,030	3,030		
Pumping Station																
10	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station	0	0	720	720	1,430	1,430	0	0	0	0	2,150	2,150	2021	2022
2	5142467422	New PD2 Water Pumping Station (CASH FLOWED)	500	500	0	0	0	0	0	0	12,100	12,100	12,600	12,600	2017	2021
			500	500	720	720	1,430	1,430	0	0	12,100	12,100	14,750	14,750		
Watermain Lining																
City Wide	5142160072	Watermain Structural Lining	0	0	7,700	4,930	6,200	6,200	6,200	6,200	43,400	43,400	63,500	60,730	2021	Ongoing
13	5142260072	WM Structural Lining - Dundas Valley Watermain	0	0	0	0	1,350	1,350	0	0	0	0	1,350	1,350	2022	2022

**CITY OF HAMILTON
 WATER SYSTEM
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		<u>Start Year</u>	<u>End Year</u>
			<u>Gross</u>	<u>Net</u>	<u>Gross</u>	<u>Net</u>										
			0	0	7,700	4,930	7,550	7,550	6,200	6,200	43,400	43,400	64,850	62,080		
		<i>Total Water System</i>	61,835	14,071	103,408	69,798	128,878	96,332	134,687	84,400	686,806	541,735	1,115,614	806,336		

**SOURCE OF CAPITAL FINANCING
2021 to 2030 RATE PROGRAM CAPITAL BUDGET
\$(000'S)**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2021 to 2030
WASTEWATER											
Capital Program	166,628	115,866	69,175	57,795	59,185	153,636	158,860	173,506	61,045	75,030	1,090,725
<u>Source of Funding</u>											
Subsidy/Other Revenue	22,092	-	-	-	-	-	-	-	-	-	22,092
Development Charges	43,863	30,642	14,802	3,817	4,017	95,025	93,725	93,579	867	667	381,004
Reserves & Other Internal Sources	14,735	11,000	10,500	10,000	-	-	-	-	-	-	46,235
Contribution from Operating	57,238	46,724	42,673	43,978	55,168	58,611	63,935	79,927	60,178	74,363	582,794
External Debt	28,700	27,500	1,200	-	-	-	1,200	-	-	-	58,600
Total	166,628	115,866	69,175	57,795	59,185	153,636	158,860	173,506	61,045	75,030	1,090,725

City of Windsor
Wastewater System
2021 Capital Budget Project List
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
Annual Projects														
City Wide	4032114405	Contaminated Soil & Rock Disposal Program		250	-	-	-	-	-	-	-	250	250	-
City Wide	4032158001	Consultation and Accommodation		30	-	-	-	-	-	-	-	30	30	-
City Wide	5162101099	Engineering Services Staffing Costs - Wastewater		4,700	-	-	-	-	-	-	-	4,700	4,700	-
City Wide	5162160711	PW Capital Water Consumption Program		250	-	-	-	-	-	-	-	250	250	-
<i>Sub-Total Annual Projects</i>				5,230	-	-	-	-	-	-	-	5,230	5,230	-
Building - New Construction														
City Wide	5161667421	New Haulage Receiving Station		250	-	-	-	-	-	-	-	250	250	-
<i>Sub-Total Building - New Construction</i>				250	-	-	-	-	-	-	-	250	250	-
Computer Software Purchases														
City Wide	5162157545	Wastewater Computer Model Update & Maintenance		150	-	-	-	145	-	-	-	5	5	-
<i>Sub-Total Computer Software Purchases</i>				150	-	-	-	145	-	-	-	5	5	-
Coordinated - Network Extension Projects														
6, 11	5162180584	RHBP - Nebo - Rymal to Twenty	*	750	-	-	750	-	-	-	-	-	-	-
<i>Sub-Total Coordinated - Network Extension Projects</i>				750	-	-	750	-	-	-	-	-	-	-
Coordinated - Replacement Projects														
2	5161971945	Sheaffe / Park / Mulberry (Central Neighbourhood (North))		70	-	-	-	-	-	-	-	70	70	-
10	5162171025	Dewitt - Highway 8 to Barton		660	-	-	-	-	-	-	-	660	660	-
13	5162171311	Highway 8 - Bond to Woodleys Lane		1,650	-	-	-	-	-	-	-	1,650	1,650	-
<i>Sub-Total Coordinated - Replacement Projects</i>				2,380	-	-	-	-	-	-	-	2,380	2,380	-
Coordinated Projects														
City Wide	5161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities		350	-	200	-	-	-	-	-	150	150	-
<i>Sub-Total Coordinated Projects</i>				350	-	200	-	-	-	-	-	150	150	-
Development Projects														
7	5162180281	Rymal - 150m e/o Massina to 140m easterly		30	-	-	-	-	-	-	-	30	30	-
<i>Sub-Total Development Projects</i>				30	-	-	-	-	-	-	-	30	30	-
Equipment Replacement														
City Wide	5161966151	SCADA Maintenance Program		150	-	-	-	-	-	-	-	150	150	-
<i>Sub-Total Equipment Replacement</i>				150	-	-	-	-	-	-	-	150	150	-
Maintenance Projects														
5, 6	5161968920	Fennell/Greenhill Drop Shaft		350	-	-	-	-	-	-	-	350	350	-
4	5162068851	Pier 25 Dredging - Windermere Basin		280	-	-	-	-	-	-	-	280	280	-
4	5162161142	Eastern Sanitary Interceptor (ESI) at Battlefield Creek Trunk		260	-	-	-	-	-	-	-	260	260	-
<i>Sub-Total Maintenance Projects</i>				890	-	-	-	-	-	-	-	890	890	-
Master Plan - Horizontal Assets														
5, 9	5161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	*	10,500	-	-	10,500	-	-	-	-	-	-	-
11	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	*	20,300	-	-	20,300	-	-	-	-	-	-	-
<i>Sub-Total Master Plan - Horizontal Assets</i>				30,800	-	-	30,800	-	-	-	-	-	-	-
Network Extension Projects														
12	5162180187	Garner Road West - Raymond Road to Hwy 6 - CASH FLOW	*	4,000	-	-	4,000	-	-	-	-	-	-	-
<i>Sub-Total Network Extension Projects</i>				4,000	-	-	4,000	-	-	-	-	-	-	-
Outstations-Sustainable Asset Mgt (SAM)														
13	5161267273	Dundas Wastewater Outstations Upgrades		3,470	-	-	-	-	-	-	-	3,470	3,470	-

City of Hamilton
Wastewater System
2021 Capital Budget Project List
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
12, 13, 15	5161667622	FC001, DC009 & HC011 Wastewater Pumping Stations Upgrades		660	-	-	330	-	-	-	-	330	330	-
4	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades		250	-	-	-	-	-	-	-	250	250	-
5	5162067065	Eastport Drive SPS (HC017) Upgrades		2,480	-	-	-	-	-	-	-	2,480	2,480	-
15	5162067275	FC001 Elgin Street Sewage Pumping Station		1,700	-	-	-	-	-	-	-	1,700	1,700	-
12	5162067425	Hillside SPS (DC006) Upgrades		1,100	-	-	-	-	-	-	-	1,100	1,100	-
13	5162167420	DC007 McMaster Sewage Pumping Station Upgrades		770	-	-	-	-	-	-	-	770	770	-
City Wide	5162167752	Wastewater Outstation Inspections - Asset Management Program		200	-	-	-	-	-	-	-	200	200	-
<i>Sub-Total Outstations-Sustainable Asset Mgt (SAM)</i>				10,630	-	-	330	-	-	-	-	10,300	10,300	-
Plant - Sustainable Asset Mgt (SAM)														
13	5161266213	Dundas WWTP Improvements (CASH FLOWED)		1,650	-	-	-	-	-	-	-	1,650	1,650	-
City Wide	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	*	1,750	-	-	1,750	-	-	-	-	-	-	-
City Wide	5161966511	Woodward WWTP - Digesters 3 & 5 (CASH FLOWED)		5,750	-	-	-	-	-	-	-	5,750	5,750	-
City Wide	5162067420	Main & King CSO Rehabilitation		1,000	-	-	-	-	-	-	-	1,000	1,000	-
City Wide	5162166713	Wastewater Maintenance Capital Program		1,500	-	-	-	-	-	-	-	1,500	1,500	-
<i>Sub-Total Plant - Sustainable Asset Mgt (SAM)</i>				11,650	-	-	1,750	-	-	-	-	9,900	9,900	-
Plant - Wastewater Investment Needs (WINS)														
City Wide	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	*	69,363	21,892	-	5,480	12,220	-	-	-	29,771	1,071	28,700
City Wide	5160966910	Woodward WWTP - Biosolids Management Facility	*	2,770	-	-	527	-	-	-	-	2,243	2,243	-
City Wide	5162169075	City Environmental Lab Improvements Program		410	-	-	-	-	-	410	-	-	-	-
City Wide	5162169076	City Environmental Lab - HVAC		120	-	-	-	-	-	120	-	-	-	-
<i>Sub-Total Plant - Wastewater Investment Needs (WINS)</i>				72,663	21,892	-	6,007	12,220	-	530	-	32,014	3,314	28,700
Rehabilitation Project														
8	5162061006	Inverness Ave E - Combined Major Trunk Rehabilitation		770	-	-	-	-	-	-	-	770	770	-
City Wide	5162160302	Emergency Repairs - Cross Connections Program		500	-	-	-	-	-	500	-	-	-	-
City Wide	5162160390	Wastewater System Lining Program		4,050	-	-	-	-	-	960	-	3,090	3,090	-
11	5162160391	AEGD Upper James Force Main Downstream Lining		3,500	-	-	-	-	-	-	-	3,500	3,500	-
City Wide	5162160522	Sewer Lateral Management Program (WWC)		4,250	-	-	-	-	-	-	-	4,250	4,250	-
City Wide	5162160533	Trenchless Manhole Rehabilitation		70	-	-	-	-	-	-	-	70	70	-
City Wide	5162160574	Capital Programming Sewer Inspection & Assessment		500	-	-	-	-	-	-	-	500	500	-
City Wide	5162160575	Mainline Sewer Condition Assessment Program		1,140	-	-	-	-	-	-	-	1,140	1,140	-
City Wide	5162160576	Sewer Lateral Condition Assessment Program		540	-	-	-	-	-	-	-	540	540	-
City Wide	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations		100	-	-	-	-	-	-	-	100	100	-
<i>Sub-Total Rehabilitation Project</i>				15,420	-	-	-	-	-	1,460	-	13,960	13,960	-
Repairs														
City Wide	5162160820	Open Cut Repairs for CIPP Program		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Repairs</i>				500	-	-	-	-	-	-	-	500	500	-
Replacement Project														
City Wide	5162161444	Sewer Lateral Replace/Rehab Program		3,600	-	-	-	-	-	-	-	3,600	3,600	-
City Wide	5162161740	Unscheduled Manhole and Sewermain Replacement Program		610	-	-	-	-	-	110	-	500	500	-
City Wide	5162171015	Sewer Lateral Replacement for Co-ordinated Projects		270	-	-	-	-	-	-	-	270	270	-
<i>Sub-Total Replacement Project</i>				4,480	-	-	-	-	-	110	-	4,370	4,370	-
Restorations														
City Wide	5162111101	Road Cut Restoration Program		1,800	-	-	-	-	-	-	-	1,800	1,800	-
<i>Sub-Total Restorations</i>				1,800	-	-	-	-	-	-	-	1,800	1,800	-

City of Hamilton
Wastewater System
2021 Capital Budget Project List
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
Technical Services Projects														
City Wide	403205588	O.Reg. 588/17 Compliance - Asset Management Plan Development		50	-	-	-	-	-	-	-	50	50	-
City Wide	403215522	State of the Infrastructure - Asset Management		50	-	-	-	-	-	-	-	50	50	-
City Wide	516214955	QA-QC Service Contract Program		150	-	-	-	-	-	-	-	150	150	-
City Wide	516215502	Engineering Consultant Sewermain Projects		300	-	-	-	-	-	-	-	300	300	-
City Wide	516215556	Mapping Update Program		40	-	-	-	-	-	-	-	40	40	-
City Wide	516215587	Forcemain Condition Assessment Program		270	-	-	-	-	-	270	-	-	-	-
City Wide	516215588	Inflow & Infiltration Studies and Flow Monitoring Program	*	450	-	-	226	-	-	-	-	224	224	-
<i>Sub-Total Technical Services Projects</i>				1,310	-	-	226	-	-	270	-	814	814	-
Upgrade Projects														
6, 7	516165531	Lawfield / Berrisfield Neighbourhoods		170	-	-	-	-	-	-	-	170	170	-
City Wide	5162162073	Field Data Systems Program		110	-	-	-	-	-	-	-	110	110	-
City Wide	5162167501	Odour Control Program & Media Replacement		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Upgrade Projects</i>				780	-	-	-	-	-	-	-	780	780	-
Wastewater Investment Needs Strategy (WINS)														
15	5162167275	DC014 First Street (Waterdown) SPS New Swab Launch Chamber		1,540	-	-	-	-	-	-	-	1,540	1,540	-
<i>Sub-Total Wastewater Investment Needs Strategy (WINS)</i>				1,540	-	-	-	-	-	-	-	1,540	1,540	-
Water Quality Initiatives (WQI)														
City Wide	5161468422	Randle Reef Sediment Remediation (CASH FLOWED)		375	-	-	-	-	-	-	-	375	375	-
<i>Sub-Total Water Quality Initiatives (WQI)</i>				375	-	-	-	-	-	-	-	375	375	-
Waterfront Initiatives														
City Wide	5162055800	Sewer Outfall Monitoring Study		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Waterfront Initiatives</i>				500	-	-	-	-	-	-	-	500	500	-
Total All Projects				166,628	21,892	200	43,863	12,365	-	2,370	-	85,938	57,238	28,700

*DC Debt

**CITY OF HAMILTON
WASTEWATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Rehabilitation, Replacement, & Upgrade Programs (SAM)																
City Wide	4032055588	O.Reg. 588/17 Compliance - Asset Management Plan Development	75	0	50	50	50	50	50	50	0	0	225	150	2020	2023
City Wide	4032114405	Contaminated Soil & Rock Disposal Program	0	0	250	250	0	0	0	0	750	750	1,000	1,000	2021	Ongoing
City Wide	4032155522	State of the Infrastructure - Asset Management	0	0	50	50	90	90	90	90	630	630	860	860	2021	Ongoing
City Wide	4032158001	Consultation and Accommodation	0	0	30	30	30	30	30	30	210	210	300	300	2021	Ongoing
4	5161641226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	1,250	2,250	0	0	0	0	2,500	2,500	5,000	5,000	8,750	9,750	2016	2024
6, 7	5161655351	Lawfield / Berrisfield Neighbourhoods	185	110	170	170	0	0	0	0	0	0	355	280	2016	2021
City Wide	5161667421	New Haulage Receiving Station	2,240	0	250	250	4,250	4,250	4,250	4,250	0	0	10,990	8,750	2016	2023
8	5162061006	Inverness Ave E - Combined Major Trunk Rehabilitation	200	0	770	770	0	0	0	0	0	0	970	770	2020	2021
City Wide	5162071940	Unspecified WW Works	0	0	0	0	0	0	0	0	0	0	0	0	2020	2024
City Wide	5162101099	Engineering Services Staffing Costs - Wastewater	0	0	4,700	4,700	4,700	4,700	4,700	4,700	32,900	32,900	47,000	47,000	2021	Ongoing
City Wide	5162111101	Road Cut Restoration Program	0	0	1,800	1,800	1,800	1,800	1,800	1,800	12,600	12,600	18,000	18,000	2021	Ongoing
City Wide	5162149555	QA-QC Service Contract Program	0	0	150	150	150	150	150	150	1,050	1,050	1,500	1,500	2021	Ongoing
City Wide	5162155022	Engineering Consultant Sewermain Projects	0	0	300	300	300	300	300	300	2,100	2,100	3,000	3,000	2021	Ongoing
City Wide	5162155556	Mapping Update Program	0	0	40	40	40	40	40	40	280	280	400	400	2021	Ongoing
City Wide	5162155878	Forcemain Condition Assessment Program	0	0	270	0	270	270	270	270	1,890	1,890	2,700	2,430	2021	Ongoing
City Wide	5162155880	Inflow & Infiltration Studies and Flow Monitoring Program	0	0	450	224	550	275	550	275	1,960	980	3,510	1,754	2021	Ongoing
City Wide	5162157545	Wastewater Computer Model Update & Maintenance	0	0	150	150	440	440	170	170	1,190	1,190	1,950	1,950	2021	Ongoing
City Wide	5162160302	Emergency Repairs - Cross Connections Program	0	0	500	0	500	500	400	400	1,150	1,150	2,550	2,050	2021	Ongoing
City Wide	5162160390	Wastewater System Lining Program	0	0	4,050	3,090	4,050	4,050	4,050	4,050	28,350	28,350	40,500	39,540	2021	Ongoing
11	5162160391	AEGD Upper James Force Main Downstream Lining	0	0	3,500	3,500	0	0	0	0	0	0	3,500	3,500	2021	2021
City Wide	5162160522	Sewer Lateral Management Program (WWC)	0	0	4,250	4,250	4,000	4,000	3,500	3,500	24,500	24,500	36,250	36,250	2021	Ongoing

**CITY OF HAMILTON
WASTEWATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Rehabilitation, Replacement, & Upgrade Programs (SAM)																
City Wide	5162160533	Trenchless Manhole Rehabilitation	0	0	70	70	70	70	70	70	490	490	700	700	2021	Ongoing
City Wide	5162160574	Capital Programming Sewer Inspection & Assessment	0	0	500	500	500	500	500	500	3,500	3,500	5,000	5,000	2021	Ongoing
City Wide	5162160575	Mainline Sewer Condition Assessment Program	0	0	1,140	1,140	1,140	1,140	1,140	1,140	7,980	7,980	11,400	11,400	2021	Ongoing
City Wide	5162160576	Sewer Lateral Condition Assessment Program	0	0	540	540	540	540	540	540	3,780	3,780	5,400	5,400	2021	Ongoing
City Wide	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations	0	0	100	100	100	100	100	100	700	700	1,000	1,000	2021	Ongoing
City Wide	5162160711	PW Capital Water Consumption Program	0	0	250	250	250	250	250	250	1,750	1,750	2,500	2,500	2021	Ongoing
City Wide	5162160820	Open Cut Repairs for CIPP Program	0	0	500	500	500	500	500	500	3,500	3,500	5,000	5,000	2021	Ongoing
City Wide	5162161444	Sewer Lateral Replace/Rehab Program	0	0	3,600	3,600	3,600	3,600	3,600	3,600	25,200	25,200	36,000	36,000	2021	Ongoing
City Wide	5162161740	Unscheduled Manhole and Sewermain Replacement Program	0	0	610	500	400	400	400	400	2,450	2,450	3,860	3,750	2021	Ongoing
City Wide	5162162073	Field Data Systems Program	0	0	110	110	110	110	110	110	770	770	1,100	1,100	2021	Ongoing
City Wide	5162167501	Odour Control Program & Media Replacement	0	0	500	500	1,000	1,000	0	0	0	0	1,500	1,500	2020	2020
City Wide	5162171015	Sewer Lateral Replacement for Co-ordinated Projects	0	0	270	270	270	270	270	270	2,790	2,790	3,600	3,600	2021	Ongoing
City Wide	5162171074	Contingency for Unscheduled Works Program	0	0	0	0	180	180	0	0	720	720	900	900	2021	Ongoing
4	5162260292	Strathearne - Barton to Brampton	0	0	0	0	7,000	7,000	0	0	0	0	7,000	7,000	2022	2022
15	5162418420	Grindstone Creek Utility Bridge	0	0	0	0	0	0	0	0	3,500	3,500	3,500	3,500	2024	2024
14	5162461420	West 31st 400mm Forcemain Replacement & Rehabilitation	0	0	0	0	0	0	0	0	1,600	1,600	1,600	1,600	2024	2024
			3,950	2,360	29,920	27,854	36,880	36,605	30,330	30,055	173,290	172,310	274,370	269,184		

Projects Coordinated with Roads Program

2	5161971945	Sheaffe / Park / Mulberry (Central Neighbourhood (North))	2,350	0	70	70	0	0	0	0	0	0	2,420	70	2019	2021
10	5162171025	Dewitt - Highway 8 to Barton	0	0	660	660	0	0	0	0	0	0	660	660	2021	2021
1	5162171303	Marion - Longwood to Dromore	0	0	0	0	120	120	0	0	0	0	120	120	2022	2022

**CITY OF HAMILTON
WASTEWATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Projects Coordinated with Roads Program																
13	5162171311	Highway 8 - Bond to Woodleys Lane	0	0	1,650	1,650	0	0	0	0	0	0	1,650	1,650	2021	2021
5	5162271306	Kelvin - Old Orchard to south end	0	0	0	0	30	30	0	0	0	0	30	30	2022	2022
6	5162271308	Concession / Mountain Brow - Upper Gage to Oakcrest	0	0	0	0	150	150	0	0	0	0	150	150	2022	2022
4	5162271312	Strathearne - Main to Britannia	0	0	0	0	30	30	0	0	0	0	30	30	2022	2022
13	5162272205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	0	0	0	0	1,750	1,750	0	0	0	0	1,750	1,750	2022	2022
2	5162371307	Duke - Hess to west end & Robinson - Queen to west end	0	0	0	0	0	0	30	30	240	240	270	270	2023	2024
14	5162371308	Scenic - Chateau Crt to Upper Paradise	0	0	0	0	0	0	900	900	0	0	900	900	2023	2023
2	5162471304	Ferguson/Foster/Walnut/Patrick	0	0	0	0	0	0	0	0	110	110	110	110	2024	2024
1	5162472213	Westdale North Neighbourhood Phase 1	0	0	0	0	0	0	0	0	1,500	1,500	1,500	1,500	2024	2024
3	5162671310	Oak/Emerald/East Ave - Cannon to Barton	0	0	0	0	0	0	0	0	420	420	420	420	2026	2026
3, 4	5162771203	Burlington & Industrial - Ottawa to Kenilworth	0	0	0	0	0	0	0	0	740	740	740	740	2027	2027
1	5162871311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	0	0	0	0	0	0	0	0	410	410	410	410	2028	2028
3	5163071308	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	0	0	0	0	0	0	0	0	80	80	80	80	2030	2030
			2,350	0	2,380	2,380	2,080	2,080	930	930	3,500	3,500	11,240	8,890		
SERG Projects																
City Wide	5162696475	Flooding & Drainage Master Plan Capital Forecast	0	0	0	0	0	0	0	0	22,500	22,500	22,500	22,500	2026	2029
			0	0	0	0	0	0	0	0	22,500	22,500	22,500	22,500		
Waterfront Initiatives																
City Wide	5162055800	Sewer Outfall Monitoring Study	0	0	500	500	0	0	0	0	0	0	500	500	2020	2021
			0	0	500	500	0	0	0	0	0	0	500	500		
Plant/Outstations Projects (SAM)																

**CITY OF HAMILTON
WASTEWATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Plant/Outstations Projects (SAM)																
13	5161266213	Dundas WWTP Improvements (CASH FLOWED)	3,070	0	1,650	1,650	1,650	1,650	9,250	9,250	14,900	14,900	30,520	27,450	2012	2021
13	5161267273	Dundas Wastewater Outstations Upgrades	3,330	280	3,470	3,470	0	0	0	0	0	0	6,800	3,750	2012	2021
5	5161467756	Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	2,920	930	0	0	2,150	2,150	0	0	0	0	5,070	3,080	2014	2021
12, 13, 15	5161667622	FC001, DC009 & HC011 Wastewater Pumping Stations Upgrades	6,690	1,438	660	330	0	0	0	0	0	0	7,350	1,768	2016	2021
4	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades	670	110	250	250	2,860	2,860	0	0	0	0	3,780	3,220	2017	2019
City Wide	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	3,250	0	1,750	0	2,500	0	2,500	0	286,374	0	296,374	0	2019	2028
City Wide	5161966511	Woodward WWTP - Digesters 3 & 5 (CASH FLOWED)	3,000	0	5,750	5,750	3,250	3,250	0	0	0	0	12,000	9,000	2018	2022
5	5162067065	Eastport Drive SPS (HC017) Upgrades	390	0	2,480	2,480	0	0	0	0	0	0	2,870	2,480	2020	2022
15	5162067275	FC001 Elgin Street Sewage Pumping Station	550	0	1,700	1,700	0	0	0	0	0	0	2,250	1,700	2020	2021
City Wide	5162067420	Main & King CSO Rehabilitation	350	0	1,000	1,000	0	0	0	0	0	0	1,350	1,000	2020	2020
12	5162067425	Hillside SPS (DC006) Upgrades	280	0	1,100	1,100	0	0	0	0	0	0	1,380	1,100	2020	2021
City Wide	5162166713	Wastewater Maintenance Capital Program	0	0	1,500	1,500	2,000	2,000	2,000	2,000	14,000	14,000	19,500	19,500	2021	Ongoing
13	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	0	0	770	770	1,650	1,650	0	0	0	0	2,420	2,420	2021	2021
City Wide	5162167751	Wastewater Outstation Upgrades - Asset Management Program	0	0	0	0	0	0	0	0	28,000	28,000	28,000	28,000	2024	Ongoing
City Wide	5162167752	Wastewater Outstation Inspections - Asset Management Program	0	0	200	200	620	620	620	620	4,340	4,340	5,780	5,780	2021	Ongoing
City Wide	5162266011	Woodward WWTP - Secondary Digester	0	0	0	0	500	500	5,000	5,000	0	0	5,500	5,500	2022	2023
City Wide	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	0	0	0	0	0	0	1,100	1,100	26,840	26,840	27,940	27,940	2018	2026
City Wide	5162466301	Woodward WWTP North Plant Rehabilitation (CASH FLOWED)	0	0	0	0	0	0	0	0	50,000	50,000	50,000	50,000	2024	2028
			24,500	2,758	22,280	20,200	17,180	14,680	20,470	17,970	424,454	138,080	508,884	193,688		

**CITY OF HAMILTON
WASTEWATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Plant/Outstations Projects (WQI)																
City Wide	5161468422	Randle Reef Sediment Remediation (CASH FLOWED)	5,650	1,550	375	375	0	0	0	0	0	0	6,025	1,925	2014	2021
			5,650	1,550	375	375	0	0	0	0	0	0	6,025	1,925		
Plant/Outstations Projects (WINS)																
City Wide	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	317,374	3,266	69,363	29,771	25,186	22,146	0	0	0	0	411,923	55,183	2008	2022
City Wide	5160966910	Woodward WWTP - Biosolids Management Facility	38,500	630	2,770	2,243	2,770	2,243	2,770	2,243	19,390	15,701	66,200	23,060	2009	2051
15	5162167275	DC014 First Street (Waterdown) SPS New Swab Launch Chamber	0	0	1,540	1,540	0	0	0	0	0	0	1,540	1,540	2021	2021
City Wide	5162169075	City Environmental Lab Improvements Program	0	0	410	0	340	340	190	190	390	390	1,330	920	2021	Ongoing
City Wide	5162169076	City Environmental Lab - HVAC	0	0	120	0	0	0	0	0	0	0	120	0	2021	2021
			355,874	3,896	74,203	33,554	28,296	24,729	2,960	2,433	19,780	16,091	481,113	80,703		
Master Plan - Horizontal Assets																
5, 9	5161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	12,150	0	10,500	0	0	0	0	0	0	0	22,650	0	2016	2021
11	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	31,200	0	20,300	0	20,300	0	11,300	0	0	0	83,100	0	2016	2018
1	5161996954	Aberdeen at Hillside Neighbourhood Sewer Separation	450	0	0	0	2,230	2,230	0	0	990	990	3,670	3,220	2019	2025
			43,800	0	30,800	0	22,530	2,230	11,300	0	990	990	109,420	3,220		
Master Plan - Vertical Assets																
City Wide	5161555264	City-Wide Wastewater Master Plan	950	0	0	0	0	0	0	0	60	6	1,010	6	2015	2021
City Wide	5162095800	Flooding & Drainage Master Plan Capital Improvements	880	0	0	0	550	550	280	280	280	280	1,990	1,110	2020	2023
City Wide	5162155010	Wastewater Systems Planning Program	0	0	0	0	440	440	440	440	3,080	3,080	3,960	3,960	2021	Ongoing
			1,830	0	0	0	990	990	720	720	3,420	3,366	6,960	5,076		

Development/Extension Projects

**CITY OF HAMILTON
WASTEWATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Development/Extension Projects																
12	5162180187	Garner Road West - Raymond Road to Hwy 6 - CASH FLOW	0	0	4,000	0	4,000	0	0	0	0	0	8,000	0	2021	2022
7	5162180281	Rymal - 150m e/o Massina to 140m easterly	0	0	30	30	0	0	0	0	0	0	30	30	2021	2021
6, 11	5162180584	RHBP - Nebo - Rymal to Twenty	0	0	750	0	0	0	0	0	0	0	750	0	2021	2021
City Wide	5162196011	Intensification Infrastructure Upgrades Program - Wastewater	0	0	0	0	0	0	400	200	1,200	600	1,600	800	2021	Ongoing
			0	0	4,780	30	4,000	0	400	200	1,200	600	10,380	830		
Computer Hardware Purchases																
City Wide	5163066151	SCADA Master Plan	0	0	0	0	0	0	0	0	2,625	2,625	2,625	2,625	2030	2034
			0	0	0	0	0	0	0	0	2,625	2,625	2,625	2,625		
Coordinated Projects																
City Wide	5161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities	570	220	350	150	0	0	0	0	0	0	920	370	2018	2020
			570	220	350	150	0	0	0	0	0	0	920	370		
Demolition																
1	5161767772	Decommissioning Aberdeen Sewage Pumping Station	60	0	0	0	110	110	1,190	1,190	0	0	1,360	1,300	2019	2023
			60	0	0	0	110	110	1,190	1,190	0	0	1,360	1,300		
Energy Management																
City Wide	5162241350	Pilot solar power installation at a Class B Hamilton Water facility	0	0	0	0	150	150	600	600	0	0	750	750	2022	2023
			0	0	0	0	150	150	600	600	0	0	750	750		
Equipment Replacement																
City Wide	5161966151	SCADA Maintenance Program	0	0	150	150	400	400	275	275	3,300	3,300	4,125	4,125	2019	Ongoing
			0	0	150	150	400	400	275	275	3,300	3,300	4,125	4,125		
Maintenance Projects																

**CITY OF HAMILTON
WASTEWATER SYSTEM
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Maintenance Projects																
5, 6	5161968920	Fennell/Greenhill Drop Shaft	680	0	350	350	0	0	0	0	15,000	15,000	16,030	15,350	2019	2026
4	5162068851	Pier 25 Dredging - Windermere Basin	170	170	280	280	13,250	13,250	0	0	0	0	13,700	13,700	2018	2021
4	5162161142	Eastern Sanitary Interceptor (ESI) at Battlefield Creek Trunk	0	0	260	260	0	0	0	0	0	0	260	260	2021	2021
			850	170	890	890	13,250	13,250	0	0	15,000	15,000	29,990	29,310		
Plans/Studies																
City Wide	5162562543	CSO Characterization Program	0	0	0	0	0	0	0	0	450	450	450	450	2025	2025
			0	0	0	0	0	0	0	0	450	450	450	450		
Total Wastewater System			439,434	10,954	166,628	86,083	125,866	95,224	69,175	54,373	670,509	378,812	1,471,612	625,446		

**SOURCE OF CAPITAL FINANCING
2021 to 2030 RATE PROGRAM CAPITAL BUDGET
\$(000'S)**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2021 to 2030
STORM SEWERS											
Capital Program	29,875	26,805	27,250	34,385	22,580	26,310	46,680	41,180	41,510	34,880	331,455
<u>Source of Funding</u>											
Subsidy/Other Revenue	473	75	75	75	75	75	75	75	75	75	1,148
Development Charges	8,185	4,000	4,000	4,920	4,000	4,000	4,000	4,000	4,920	4,000	46,025
Reserves & Other Internal Sources	3,584	3,646	-	-	-	-	-	-	-	-	7,230
Contribution from Operating	17,633	19,084	23,175	29,390	18,505	22,235	41,405	37,105	36,515	30,805	275,852
External Debt	-	-	-	-	-	-	1,200	-	-	-	1,200
Total	29,875	26,805	27,250	34,385	22,580	26,310	46,680	41,180	41,510	34,880	331,455

City of Milton
Storm Water Management
2021 Capital Budget Project List
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
Annual Projects														
City Wide	4032114405	Contaminated Soil & Rock Disposal Program		250	-	-	-	-	-	-	-	250	250	-
City Wide	4032158001	Consultation and Accommodation		30	-	-	-	-	-	-	-	30	30	-
City Wide	5182101099	Engineering Services Staffing Costs - Storm		1,100	-	-	-	-	-	-	-	1,100	1,100	-
<i>Sub-Total Annual Projects</i>				1,380	-	-	-	-	-	-	-	1,380	1,380	-
Coordinated - Network Extension Projects														
6, 11	5182180584	RHBP - Nebo - Rymal to Twenty	*	2,000	-	-	1,700	-	-	-	-	300	300	-
<i>Sub-Total Coordinated - Network Extension Projects</i>				2,000	-	-	1,700	-	-	-	-	300	300	-
Coordinated - Replacement Projects														
4	5182170010	Barton - Parkdale to Talbot - Coordinated Road Restoration		1,700	-	-	-	-	-	-	-	1,700	1,700	-
13	5182172011	Highway 8 - Bond to Woodleys Lane		2,150	-	-	-	-	-	500	-	1,650	1,650	-
13	5182172205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)		30	-	-	-	-	-	-	-	30	30	-
4	5182172210	Barton - Parkdale to Talbot		1,530	-	-	-	-	-	-	-	1,530	1,530	-
City Wide	5182174840	Stormwater Analysis for Bridge, Culvert and Ditch Replacement Projects		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Coordinated - Replacement Projects</i>				5,910	-	-	-	-	-	500	-	5,410	5,410	-
Coordinated - Upgrade Projects														
City Wide	5182174680	Storm Sewer Network Planning - Transportation Program		660	-	-	-	-	-	-	-	660	660	-
<i>Sub-Total Coordinated - Upgrade Projects</i>				660	-	-	-	-	-	-	-	660	660	-
Development Projects														
City Wide	5182180090	Storm Water Management Program		4,000	-	-	4,000	-	-	-	-	-	-	-
11	5182180280	Airport Road Storm Sewer - Homestead to Mountaingate		1,360	-	-	1,360	-	-	-	-	-	-	-
7	5182180281	Rymal - 150m e/o Massina to 140m easterly		70	-	-	-	-	-	-	-	70	70	-
9	5182180285	SWMP - SM20		1,125	-	-	1,125	-	-	-	-	-	-	-
<i>Sub-Total Development Projects</i>				6,555	-	-	6,485	-	-	-	-	70	70	-
Maintenance Projects														
City Wide	5182168651	Windermere Basin Shoreline Rehabilitation		170	-	-	-	-	-	-	-	170	170	-
City Wide	5182174951	Shoreline Protection Program		1,320	-	-	-	-	-	1,320	-	-	-	-
<i>Sub-Total Maintenance Projects</i>				1,490	-	-	-	-	-	1,320	-	170	170	-
Operations & Maintenance														
15	5181972940	Evans Road Culvert Twinning		500	-	-	-	-	-	-	-	500	500	-
15	5182017040	Highway 97 - Culvert Improvement Project		580	-	-	-	-	-	-	-	580	580	-
City Wide	5182160622	SWM Facility Maintenance Program		2,000	-	-	-	1,654	-	-	-	346	346	-
10, 11, 12, 13, 14,	5182160722	Municipal Drain Program		700	-	473	-	-	-	-	-	227	227	-
<i>Sub-Total Operations & Maintenance</i>				3,780	-	473	-	1,654	-	-	-	1,653	1,653	-
Outstations-Sustainable Asset Mgt (SAM)														
City Wide	5182167751	Stormwater Infrastructure Criticality Assessment		280	-	-	-	-	-	-	-	280	280	-
<i>Sub-Total Outstations-Sustainable Asset Mgt (SAM)</i>				280	-	-	-	-	-	-	-	280	280	-
Programs & Contracts T.O.M.														
City Wide	5182117152	Right of Way Drainage Program		1,500	-	-	-	-	-	-	-	1,500	1,500	-
City Wide	5182117458	Catch Basin Replacement/Rehabilitation Program		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Programs & Contracts T.O.M.</i>				2,000	-	-	-	-	-	-	-	2,000	2,000	-
Rehabilitation Project														
13	5182061046	Osler Dr Outfall @ Grant Blvd		490	-	-	-	-	-	110	-	380	380	-

City of Hamilton
Storm Water Management
2021 Capital Budget Project List
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources		
													From Operating	Debt	
City Wide	5182160129	Residential Drainage Assistance Program		100	-	-	-	-	-	-	-	100	100	-	
City Wide	5182160533	Trenchless Manhole Rehabilitation		70	-	-	-	-	-	-	-	70	70	-	
14	5182180150	Chedmac - Southridge Court to 80m easterly		230	-	-	-	-	-	-	-	230	230	-	
<i>Sub-Total Rehabilitation Project</i>				890	-	-	-	-	-	110	-	780	780	-	
Replacement Project															
City Wide	5181767723	Pumping Stations		1,350	-	-	-	-	-	-	-	1,350	1,350	-	
13	5182018101	Old Guelph Rd - Culvert Replacement		350	-	-	-	-	-	-	-	350	350	-	
City Wide	5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.		250	-	-	-	-	-	-	-	250	250	-	
City Wide	5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services		250	-	-	-	-	-	-	-	250	250	-	
City Wide	5182161740	Unscheduled Manhole and Sewermain Replacement Program		50	-	-	-	-	-	-	-	50	50	-	
<i>Sub-Total Replacement Project</i>				2,250	-	-	-	-	-	-	-	2,250	2,250	-	
SERG															
1	5181260214	SERG - Parkside and Kipling Flood Solutions		1,000	-	-	-	-	-	-	-	1,000	1,000	-	
City Wide	5182155347	Watercourse Erosion Sites Rehabilitation and Mitigation		280	-	-	-	-	-	-	-	280	280	-	
City Wide	5182174275	Stormwater Management Facility Improvements		1,000	-	-	-	-	-	-	-	1,000	1,000	-	
<i>Sub-Total SERG</i>				2,280	-	-	-	-	-	-	-	2,280	2,280	-	
Technical Services Projects															
City Wide	4032055588	O.Reg. 588/17 Compliance - Asset Management Plan Development		50	-	-	-	-	-	-	-	50	50	-	
City Wide	4032155522	State of the Infrastructure - Asset Management		50	-	-	-	-	-	-	-	50	50	-	
City Wide	5182149555	QA-QC Service Contract Program		150	-	-	-	-	-	-	-	150	150	-	
City Wide	5182155556	Mapping Update Program		40	-	-	-	-	-	-	-	40	40	-	
<i>Sub-Total Technical Services Projects</i>				290	-	-	-	-	-	-	-	290	290	-	
Upgrade Projects															
City Wide	5182162073	Field Data Systems Program		110	-	-	-	-	-	-	-	110	110	-	
<i>Sub-Total Upgrade Projects</i>				110	-	-	-	-	-	-	-	110	110	-	
Total All Projects				29,875	-	473	8,185	1,654	-	1,930	-	17,633	17,633	-	

*DC Debt

**CITY OF HAMILTON
 STORM WATER MANAGEMENT
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Rehabilitation, Replacement, & Upgrade Programs (SAM)																
City Wide	4032055588	O.Reg. 588/17 Compliance - Asset Management Plan Development	50	0	50	50	50	50	50	50	0	0	200	150	2020	2023
City Wide	4032114405	Contaminated Soil & Rock Disposal Program	0	0	250	250	0	0	0	0	750	750	1,000	1,000	2021	Ongoing
City Wide	4032155522	State of the Infrastructure - Asset Management	0	0	50	50	90	90	90	90	630	630	860	860	2021	Ongoing
City Wide	4032158001	Consultation and Accommodation	0	0	30	30	30	30	30	30	210	210	300	300	2021	Ongoing
9, 11, 12, 15	5181562590	SWMP Retrofits	720	500	0	0	0	0	660	660	0	0	1,380	1,160	2015	2023
City Wide	5181767723	Pumping Stations	700	100	1,350	1,350	100	100	0	0	50	50	2,200	1,600	2017	2026
15	5181972940	Evans Road Culvert Twinning	710	0	500	500	0	0	0	0	0	0	1,210	500	2019	2021
15	5182017040	Highway 97 - Culvert Improvement Project	0	0	580	580	0	0	0	0	0	0	580	580	2020	2021
13	5182018101	Old Guelph Rd - Culvert Replacement	0	0	350	350	0	0	0	0	0	0	350	350	2021	2021
13	5182061046	Osler Dr Outfall @ Grant Blvd	100	0	490	380	0	0	0	0	0	0	590	380	2020	2021
5	5182067875	Beach Strip Stormwater Pumping Stations (CASH FLOWED)	300	0	0	0	1,295	1,295	7,100	7,100	7,075	7,075	15,770	15,470	2020	2024
City Wide	5182101099	Engineering Services Staffing Costs - Storm	0	0	1,100	1,100	1,100	1,100	1,100	1,100	7,700	7,700	11,000	11,000	2021	Ongoing
City Wide	5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.	0	0	250	250	250	250	250	250	1,750	1,750	2,500	2,500	2021	Ongoing
City Wide	5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services	0	0	250	250	250	250	250	250	1,750	1,750	2,500	2,500	2021	Ongoing
City Wide	5182149555	QA-QC Service Contract Program	0	0	150	150	150	150	150	150	1,050	1,050	1,500	1,500	2021	Ongoing
City Wide	5182155556	Mapping Update Program	0	0	40	40	0	0	40	40	120	120	200	200	2021	Ongoing
City Wide	5182157545	Stormwater Computer Model	0	0	0	0	0	0	1,080	1,080	2,480	2,480	3,560	3,560	2021	Ongoing
City Wide	5182160129	Residential Drainage Assistance Program	0	0	100	100	0	0	0	0	0	0	100	100	2021	2021
City Wide	5182160533	Trenchless Manhole Rehabilitation	0	0	70	70	70	70	70	70	490	490	700	700	2021	Ongoing
City Wide	5182160622	SWM Facility Maintenance Program	0	0	2,000	2,000	2,000	2,000	1,200	1,200	8,400	8,400	13,600	13,600	2021	Ongoing
10, 11, 12, 13, 14, 15	5182160722	Municipal Drain Program	0	0	700	227	100	25	100	25	700	175	1,600	452	2021	Ongoing
City Wide	5182161740	Unscheduled Manhole and Sewermain Replacement Program	0	0	50	50	50	50	50	50	350	350	500	500	2021	Ongoing

**CITY OF HAMILTON
STORM WATER MANAGEMENT
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Rehabilitation, Replacement, & Upgrade Programs (SAM)																
City Wide	5182162073	Field Data Systems Program	0	0	110	110	110	110	110	110	770	770	1,100	1,100	2021	Ongoing
City Wide	5182172074	Contingency for Unscheduled Works Program	0	0	0	0	180	180	0	0	720	720	900	900	2021	Ongoing
14	5182180150	Chedmac - Southridge Court to 80m easterly	0	0	230	230	0	0	0	0	0	0	230	230	2021	2021
City Wide	5182455422	Stormwater Master Plan	0	0	0	0	0	0	0	0	2,300	460	2,300	460	2028	2028
			2,580	600	8,700	8,117	5,825	5,750	12,330	12,255	37,295	34,930	66,730	61,652		
Projects Coordinated with Roads Program																
4	5182170010	Barton - Parkdale to Talbot - Coordinated Road Restoration	0	0	1,700	1,700	0	0	0	0	0	0	1,700	1,700	2021	2021
12	5182171328	Southcote - Garner to Highway 403 Bridge	0	0	0	0	1,500	1,500	0	0	0	0	1,500	1,500	2022	2022
13	5182172011	Highway 8 - Bond to Woodleys Lane	0	0	2,150	1,650	0	0	0	0	0	0	2,150	1,650	2021	2021
13	5182172205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	0	0	30	30	1,880	1,880	0	0	0	0	1,910	1,910	2021	2022
4	5182172210	Barton - Parkdale to Talbot	0	0	1,530	1,530	0	0	0	0	0	0	1,530	1,530	2021	2021
City Wide	5182174680	Storm Sewer Network Planning - Transportation Program	0	0	660	660	660	660	660	660	4,620	4,620	6,600	6,600	2021	Ongoing
City Wide	5182174840	Stormwater Analysis for Bridge, Culvert and Ditch Replacement Projects	0	0	500	500	500	500	500	500	3,500	3,500	5,000	5,000	2021	Ongoing
14	5182270009	Scenic - Mohawk to Chateau Crt - Coordinated Road Restoration	0	0	0	0	1,200	1,200	0	0	0	0	1,200	1,200	2022	2022
14	5182272309	Scenic - Mohawk to Chateau Crt	0	0	0	0	4,100	4,100	0	0	0	0	4,100	4,100	2022	2022
13	5182372304	Hatt & Bond - King to Market	0	0	0	0	0	0	2,100	2,100	0	0	2,100	2,100	2023	2023
1	5182472213	Westdale North Neighbourhood Phase 1	0	0	0	0	0	0	0	0	3,000	3,000	3,000	3,000	2024	2024
1	5182670013	Westdale North Neighbourhood Phase 2 - Coordinated Road Restoration	0	0	0	0	0	0	0	0	2,930	2,930	2,930	2,930	2026	2026
3	5182670020	Industrial - Ottawa to Gage / Gage / Depew - Coordinated Road Restoration	0	0	0	0	0	0	0	0	640	640	640	640	2026	2026

**CITY OF HAMILTON
STORM WATER MANAGEMENT
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Projects Coordinated with Roads Program																
3	5182672020	Industrial - Ottawa to Gage / Gage / Depew	0	0	0	0	0	0	0	0	390	390	390	390	2026	2026
1	5182770013	Westdale North Neighbourhood Phase 3 - Coordinated Road Restoration	0	0	0	0	0	0	0	0	2,030	2,030	2,030	2,030	2027	2027
3, 4	5182772203	Burlington & Industrial - Ottawa to Kenilworth	0	0	0	0	0	0	0	0	680	680	680	680	2027	2027
1	5182872311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	0	0	0	0	0	0	0	0	130	130	130	130	2028	2028
2	5183072293	Hughson - Wilson to Barton	0	0	0	0	0	0	0	0	280	280	280	280	2030	2030
3	5183072298	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	0	0	0	0	0	0	0	0	850	850	850	850	2030	2030
			0	0	6,570	6,070	9,840	9,840	3,260	3,260	19,050	19,050	38,720	38,220		
SERG Projects																
1	5181260214	SERG - Parkside and Kipling Flood Solutions	1,890	170	1,000	1,000	0	0	0	0	0	0	2,890	1,170	2012	2027
6	5181372295	SERG - Mount Albion Stormwater Management Facility Rehabilitation	670	0	0	0	330	330	0	0	0	0	1,000	330	2013	2022
13	5181823155	South St E and East St S in Dundas Drainage Improvement - SERG	230	60	0	0	0	0	1,100	1,100	0	0	1,330	1,160	2018	2023
11	5181872295	SERG - Winona Area Drainage Improvements	600	330	0	0	440	440	170	170	1,100	1,100	2,310	2,040	2018	2025
City Wide	5182155347	Watercourse Erosion Sites Rehabilitation and Mitigation	0	0	280	280	280	280	500	500	16,100	16,100	17,160	17,160	2021	Ongoing
City Wide	5182155421	Stormwater System Planning Program	0	0	0	0	770	770	770	770	5,390	5,390	6,930	6,930	2021	Ongoing
City Wide	5182174275	Stormwater Management Facility Improvements	0	0	1,000	1,000	0	0	1,250	1,250	17,250	17,250	19,500	19,500	2021	2030
5	5182323875	Beach Strip Stormwater Collection System Improvements	0	0	0	0	150	150	500	500	2,350	2,350	3,000	3,000	2023	2025
1	5182460214	SERG - Parkside & Kipling Stormwater Facility - CASH FLOW	0	0	0	0	0	0	0	0	12,610	12,610	12,610	12,610	2024	2028
3	5182472295	Main - Prospect to Gage - SERG B-3	0	0	0	0	0	0	0	0	1,580	1,580	1,580	1,580	2024	2024
City Wide	5182696475	Flooding & Drainage Master Plan Capital Forecast	0	0	0	0	0	0	0	0	67,500	67,500	67,500	67,500	2026	2029

**CITY OF HAMILTON
STORM WATER MANAGEMENT
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
			3,390	560	2,280	2,280	1,970	1,970	4,290	4,290	123,880	123,880	135,810	132,980		
Plant/Outstations Projects (SAM)																
City Wide	5182167751	Stormwater Infrastructure Criticality Assessment	0	0	280	280	280	280	230	230	1,610	1,610	2,400	2,400	2021	Ongoing
			0	0	280	280	280	280	230	230	1,610	1,610	2,400	2,400		
Plant/Outstations Projects (WQI)																
City Wide	5182355075	Watershed Project Coordination and Stewardship Action Plans	0	0	0	0	0	0	0	0	1,190	1,190	1,190	1,190	2023	Ongoing
			0	0	0	0	0	0	0	0	1,190	1,190	1,190	1,190		
Master Plan - Vertical Assets																
City Wide	5182095800	Flooding & Drainage Master Plan Capital Improvements	880	0	0	0	550	550	280	280	280	280	1,990	1,110	2020	2023
			880	0	0	0	550	550	280	280	280	280	1,990	1,110		
Development/Extension Projects																
City Wide	5182180090	Storm Water Management Program	0	0	4,000	0	4,000	0	4,000	0	28,000	0	40,000	0	2021	Ongoing
11	5182180280	Airport Road Storm Sewer - Homestead to Mountaingate	0	0	1,360	0	0	0	0	0	0	0	1,360	0	2021	2021
7	5182180281	Rymal - 150m e/o Massina to 140m easterly	0	0	70	70	0	0	0	0	0	0	70	70	2021	2021
9	5182180285	SWMP - SM20	0	0	1,125	0	0	0	0	0	0	0	1,125	0	2021	2021
6, 11	5182180584	RHBP - Nebo - Rymal to Twenty	0	0	2,000	300	0	0	0	0	0	0	2,000	300	2020	2021
9	5182270021	Highland Rd W - First Rd W to Upper Centennial - Coordinated Road Restoration	0	0	0	0	310	310	0	0	0	0	310	310	2022	2022
9	5182272021	Highland Rd W - First Rd W to Upper Centennial	0	0	0	0	1,300	1,300	0	0	0	0	1,300	1,300	2022	2022
			0	0	8,555	370	5,610	1,610	4,000	0	28,000	0	46,165	1,980		
Maintenance Projects																
City Wide	5182168651	Windermere Basin Shoreline Rehabilitation	0	0	170	170	0	0	0	0	0	0	170	170	2021	2021

**CITY OF HAMILTON
 STORM WATER MANAGEMENT
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Maintenance Projects																
15	5182174950	Watercourse and Drainage Channel Maintenance	0	0	0	0	580	580	460	460	3,870	3,870	4,910	4,910	2021	Ongoing
City Wide	5182174951	Shoreline Protection Program	0	0	1,320	0	150	150	400	400	3,350	3,350	5,220	3,900	2021	Ongoing
			0	0	1,490	170	730	730	860	860	7,220	7,220	10,300	8,980		
Programs & Contracts T.O.M.																
City Wide	5182117152	Right of Way Drainage Program	0	0	1,500	1,500	1,500	1,500	1,500	1,500	10,500	10,500	15,000	15,000	2021	Ongoing
City Wide	5182117458	Catch Basin Replacement/Rehabilitation Program	0	0	500	500	500	500	500	500	3,500	3,500	5,000	5,000	2021	Ongoing
			0	0	2,000	2,000	2,000	2,000	2,000	2,000	14,000	14,000	20,000	20,000		
Total Storm Water Management			6,850	1,160	29,875	19,287	26,805	22,730	27,250	23,175	232,525	202,160	323,305	268,512		

CITY OF HAMILTON
2021 Rate Program Capital Budget Summary
(\$000'S)

	Gross Costs	Subsidy/ Other Revenues	Development Charges	WIP / Other Internal Sources	Reserves	Net Cost	Financing Source	
							Contribution From Operating	External Borrowings (Debentures)
2021 Sustainable Asset Management Strategy (SAM)								
Rehabilitation, Replacement & Upgrade Projects	75,550	473	226	6,600	2,439	65,812	65,812	-
Projects Coordinated with Roads Program or other Areas	18,100	400	-	500	-	17,200	17,200	-
S.E.R.G. Projects	2,280	-	-	-	-	2,280	2,280	-
Treatment Plant/Outstations Projects-SAM	43,383	-	2,751	-	-	40,632	29,732	10,900
Treatment Plant/Outstations Projects-WQI	1,700	-	-	275	-	1,425	1,425	-
Watermain Lining	7,700	-	-	2,770	-	4,930	30	4,900
Sub-Total	148,713	873	2,977	10,145	2,439	132,279	116,479	15,800
Wastewater Investments Needs Strategies (WINS)								
Treatment Plant/Outstations Projects-WINS	74,203	21,892	6,007	530	12,220	33,554	4,854	28,700
Sub-Total	74,203	21,892	6,007	530	12,220	33,554	4,854	28,700
Master Plan								
Horizontal and Vertical Assets	58,940	1,481	53,193	-	-	4,266	766	3,500
Waterfront Initiatives	500	-	-	-	-	500	500	-
Sub-Total	59,440	1,481	53,193	-	-	4,766	1,266	3,500
Development Program								
Development\Extension Projects	17,555	-	14,785	-	-	2,770	2,770	-
Sub-Total	17,555	-	14,785	-	-	2,770	2,770	-
Total	299,911	24,246	76,962	10,675	14,659	173,369	125,369	48,000

City of Hamilton Treasurer's Updated 2020 Annual Repayment Limit

Annual Repayment Limit - <i>effective January 1, 2020, as calculated by the Ministry of Municipal Affairs and Housing, based on 2018 Financial Information Return</i>	\$275,795,317
Annual debt service charges on City Municipal debt approved to-date 2020 and prior years but not yet issued (\$465.0 M @ 5% for 15-year term)	-\$44,795,926
Annual debt service charges on City Municipal debt in respect of ICIP Transit debt approved but not yet issued (\$83.6 M @ 5% for 15-year term)	-\$8,055,294
Annual debt service charges on City Municipal debt in respect of West Harbour debt approved but not yet issued (\$2.9 M @ 5% for 15-year term)	-\$282,283
Annual debt service charges on City Municipal debt in respect of Housing 10-year Strategy debt approved but not yet issued (\$10.0 M @ 1.75% for 20-year term)	-\$596,912
Annual debt service charges on City Housing Hamilton debt approved but not yet issued and guaranteed by City of Hamilton (\$59.3 M @ 5% for 30-year term)	-\$3,856,250
Annual debt service charges on Municipal and Development Charges debt approved but not yet issued - 2020 Tax & Rate Supported Budget (\$107.7 M @ 5% for 15-year term)	-\$10,373,174
Annual debt service charges on Municipal and Tax Supported Development Charges debt approved but not yet issued - Police Station 40 (\$8 M @ 5% for 15-year term)	-\$770,738
Annual debt service charges in 2020 resulting from 2018 debenture issue of \$110.82 M;	-\$10,587,004
Annual debt service charges on debentures discharged in 2018 and 2019	\$4,707,558
Adjustment for annual debt service charges on outstanding City Housing Hamilton mortgages and City of Hamilton Tangible Capital Leases	\$36,094
Updated 2020 Annual Repayment Limit - <i>a calculation by the Treasurer representing an estimate of the maximum amount available to commit to annual debt service charges</i>	\$201,221,385
Debenture amount at 5% interest rate for 15-year term (amortizer) corresponding to the annual debt service charges of \$201,221,385	\$2,088,609,171