



Hamilton

*Hamilton*

# **2022** **RATE SUPPORTED CAPITAL AND OPERATING BUDGET**

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# REPORT





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

<b>TO:</b>	Chair and Members General Issues Committee
<b>COMMITTEE DATE:</b>	November 22, 2021
<b>SUBJECT/REPORT NO:</b>	2022 Recommended Water, Wastewater and Stormwater Budget (FCS21088) (City Wide)
<b>WARD(S) AFFECTED:</b>	City Wide
<b>PREPARED BY:</b>	Katie Black (905) 546-2424 Ext. 6415 John Savoia (905) 546-2424 Ext. 7298 Tran Trang (905) 546-2424 Ext. 4371
<b>SUBMITTED BY:</b>	Mike Zegarac General Manager, Finance and Corporate Services Corporate Services Department
<b>SIGNATURE:</b>	

**RECOMMENDATIONS**

- (a) That the metered water consumption charges for average residential properties (meters < 25mm in size) in the City of Hamilton be imposed at the following rates, effective January 1, 2022:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.89
> 10	1.77

- (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 \$1.77 per cubic metre, effective January 1, 2022;
- (c) That daily water fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2022:

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget  
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Meter Size	Daily Water Rate
15 mm	\$0.41
16 mm	\$0.41
20 mm	\$0.41
21 mm	\$0.41
25 mm	\$1.03
38 mm	\$2.05
50 mm	\$3.28
75 mm	\$6.56
100 mm	\$10.25
150 mm	\$20.50
200 mm	\$32.80
250 mm	\$47.15
300 mm	\$69.70

- (d) That the wastewater / storm treatment charges for average residential properties (meters < 25mm in size) in the City of Hamilton be imposed at the following rates, effective January 1, 2022:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.95
> 10	1.89

- (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 \$1.89 per cubic metre, effective January 1, 2022;
- (f) That daily wastewater /storm fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2022:

Meter Size	Daily Wastewater / Storm Rate
15 mm	\$0.44
16 mm	\$0.44
20 mm	\$0.44
21 mm	\$0.44
25 mm	\$1.10
38 mm	\$2.20
50 mm	\$3.52
75 mm	\$7.04
100 mm	\$11.00
150 mm	\$22.00
200 mm	\$35.20
250 mm	\$50.60
300 mm	\$74.80

**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget  
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- (g) That the residential non-metered annual water rate be imposed at the flat rate of \$646.05 per annum, effective January 1, 2022;
- (h) That the residential non-metered annual wastewater / storm rate be imposed at the flat rate of \$689.85 per annum, effective January 1, 2022;
- (i) That the residential combined non-metered annual water and wastewater / storm rate be imposed at the flat rate of \$1,335.90 per annum, effective January 1, 2022;
- (j) That the Private Fire Line rates be imposed at the following rates, effective January 1, 2022:

Connection Size		Monthly Rate
mm	inches	
25	1	\$3.88
38	1.5	\$8.92
50	2	\$15.52
75	3	\$34.92
100	4	\$62.08
150	6	\$139.68
200	8	\$248.32
250	10	\$248.32
300	12	\$248.32

- (k) That the 2022 Water, Wastewater and Storm Proposed User Fees and Charges be imposed as per Appendix “G” to Report FCS21088, effective January 1, 2022;
- (l) That the 2022 Water, Wastewater and Stormwater Rate Supported Operating Budget in the amount of \$257,850,912 be approved as per Appendix “A” to Report FCS21088;
- (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 2022-2031 Water, Wastewater and Stormwater Rate Supported Operating Budget forecast (Appendix “A” to Report FCS21088) be approved, in principle;
- (n) That the 2022 Water, Wastewater and Stormwater Rate Supported Capital Budget and Financing Plan in the amount of \$310,436,253 be approved as per Appendices “K”, “N”, “Q” and “S” to Report FCS21088;

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- (o) That the 2022-2031 Water, Wastewater and Stormwater Rate Supported Capital Budget forecast and financing plan (Appendix “I” to Report FCS21088) be approved, in principle;
- (p) That the City Solicitor be authorized and directed to prepare, for Council approval, all necessary by-laws respecting the 2022 water and wastewater / storm user fees, charges and rates set out in Recommendations (a) through (l) of Report FCS21088;
- (q) That the additional 10.0 Full Time Equivalent Rate Supported Staffing be approved as per Appendix “F” to Report FCS21088;
- (r) That the General Manager, Finance and Corporate Services, be authorized 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 \$118,717,030 Canadian currency as attached in Appendices “K”, “N” and “Q” to Report FCS21088, which includes \$49,100,000 in Rate Supported municipal debt and \$69,617,030 Rate Supported Development Charges municipal debt;
- (s)
  - i) That the General Manager, Finance and Corporate Services, be authorized to engage the services of all required professionals to secure the terms and issuance of the debenture issue(s) described in Recommendation (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 Recommendations (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 Recommendations (s) and (t), in a form satisfactory to the City Solicitor and with content acceptable to the General Manager, Finance and Corporate Services;

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- (t) That all necessary By-Law(s) be passed to authorize the debenture issue(s) negotiated, placed and secured in accordance with Recommendations (r) and (s);
- (u) That the amending By-law attached as Appendix “U” to Report FCS21088 which amends By-law 03-272, being a By-law To Impose Fees and Charges Respecting the Use of the City of Hamilton Sanitary Sewage System and to Implement a Wastewater Abatement and which has been prepared in a form satisfactory to the City Solicitor, be enacted and effective immediately by Council;
- (v) That the amending by-law attached as Appendix “V” to Report FCS21088 which amends By-law 06-026, being a By-law To Regulate the Installation, Connection and Use of Sewers and Drains and which has been prepared in a form satisfactory to the City Solicitor, be enacted and effective immediately by Council;
- (w) That the amending by-law attached as Appendix “W” to Report FCS21088 which amends By-law R84-026, being a By-law To Regulate the Management and Maintenance of the Water Works Systems and which has been prepared in a form satisfactory to the City Solicitor, be enacted and effective immediately by Council;
- (x) That the matter, respecting Budgetary Plan to Address the Chedoke Creek Matter, be considered complete and removed from the General Issues Committee’s Outstanding Business List.

**EXECUTIVE SUMMARY**

The 2022 Recommended Water, Wastewater and Stormwater (Rate) Budget is submitted for Council’s consideration. The 2022 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 2022 to 2031, capital investments in water, wastewater and stormwater infrastructure are forecasted at \$2.70 B, which represents an increase of \$0.17 B from last year’s 10-year forecast. This budget focuses on growing our economy, environmental stewardship, financial sustainability and effective inter-governmental relations.

The Rate Capital Budget was prepared in accordance with the City of Hamilton’s Strategic Asset Management Policy. The Ministry of Infrastructure filed Ontario Regulation 588/17 – Asset Management Planning for Municipal Infrastructure under Bill 6, *Infrastructure for Jobs and Prosperity Act* (“Act”) on December 27, 2017. Regulation 588/17 went into force on January 1, 2018 and applies to all infrastructure assets directly owned by a municipality or consolidated on the municipality’s financial statements.

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The 2022 Rate Operating Budget program expenditures of \$98.4 M reflects an increase of \$7.8 M or 8.6% over the 2021 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 2022 Rate Operating Budget expenditures contain the request for 10 new full-time equivalent (FTE) employees. The net operating cost of the request is approximately \$917 K. The FTE requests are largely driven by regulatory pressures, business benefits and operating impacts from capital. For the full FTE request details, please refer to Appendix “F” to Report FCS21088.

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

Capital financing costs, including reserve transfers, in the 2022 Requested Budget of \$159.4 M reflects an increase of \$4.5 M over the 2021 Budget. With non-rate revenues of \$3.0 M, rate revenues of \$254.9 M are required to meet operating (program and capital financing) expenditures.

Table 1 summarizes the budget changes for the 2022 Requested Budget.

**Table 1**

<b>Summary of the 2022 Operating Budget</b>				
<b>(\$ millions)</b>	<b>2021 Restated Budget</b>	<b>2022 Requested Budget</b>	<b>2022 Requested / 2021 Restated Change</b>	
<b>Expenditures</b>				
Program Expenditures	\$ 90.7	\$ 98.4	\$ 7.8	8.6%
Capital/Debt / Reserve Financing	\$ 154.9	\$ 159.4	\$ 4.5	2.9%
<b>Total Expenditures</b>	<b>\$ 245.6</b>	<b>\$ 257.9</b>	<b>\$ 12.3</b>	<b>5.0%</b>
<b>Revenues</b>				
Rate Revenue	\$ 242.7	\$ 254.9	\$ 12.2	5.0%
Non-Rate Revenue	\$ 2.9	\$ 3.0	\$ 0.1	3.0%
<b>Total Revenue</b>	<b>\$ 245.6</b>	<b>\$ 257.9</b>	<b>\$ 12.3</b>	<b>5.0%</b>
<b>Average Residential Water / Wastewater / Storm Bill</b>	<b>\$ 784.80</b>	<b>\$ 823.85</b>	<b>\$ 39.05</b>	<b>4.98%</b>

*Note: Anomalies due to rounding.*

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Chart 1 highlights that the proposed combined 4.98% rate increase is driven largely by increased operating and capital financing expenditures in 2022.

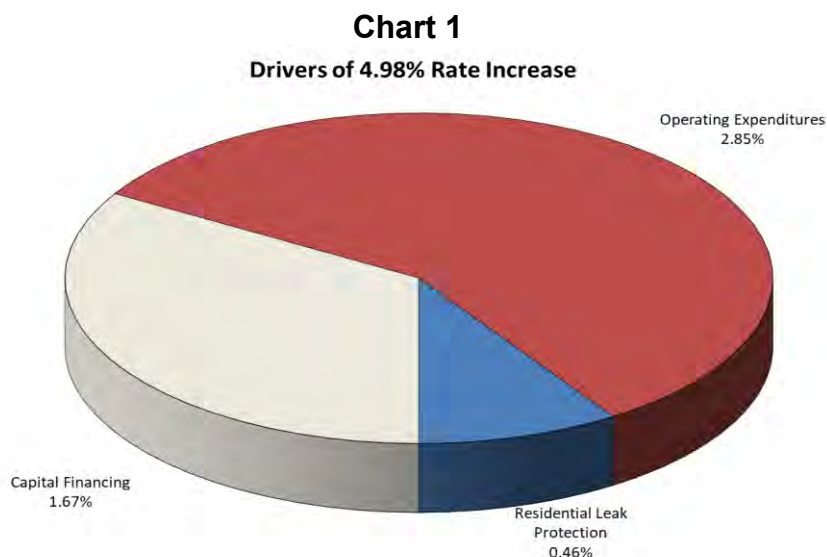


Table 2 identifies the proposed rate increase impact on the average residential customer.

**Table 2**  
**Impact of Recommended 2022 Water and Wastewater / Storm Rate Increases on a Typical Residential Bill**  
(Based on annual water consumption of 200 m<sup>3</sup>)

2021 Residential Bill	\$784.80
2022 Residential Bill	\$823.85
Recommended Change (\$)	\$39.05
Recommended Change (%)	4.98%

The recommended 2022 Rate Supported Strategy differs slightly from the Strategy approved by Council, in principle, for 2021. Staff had forecast the need for a combined 4.05% rate increase in 2022. Based on the need to fund an escalating Capital program and incremental operating program expenditures, staff recommend that Council approve a 2022 rate increase of 4.98%, 0.93% higher than previously forecast.

It should be noted that in October 2021, Council approved a revised Water Leak Adjustment Policy (Policy) that will come into effect January 1, 2022 (for details please refer to Report FCS21087 / LS21037). The residential leak protection program is intended to be cost-neutral for the City and as such, the associated insurance premium fees borne by the City will be recovered from the fixed charges applied to residential



water accounts. The water daily fixed charge has been increased by one cent which represents a rate increase of 0.46%.

While it is true that the Rate Supported Budget Financing Strategy has changed from time to time, the overall goal of achieving a sustainable level of funding to support the necessary infrastructure investments, has not. Approved, in principle, rates were to increase by 4.05% to 4.35% for the forecast period of 2022 - 2030. The amended Strategy calls for combined rate increases averaging 6.4% from 2023 - 2026 and approximately 3.0% annually from 2027 - 2031.

In general, the goal of the Strategy has been to support the water, wastewater and storm programs through a sustainable level of funding. Capital investment forecasts have changed for a number of reasons creating the need for additional financial resources. It should be noted that the intention of the 2021 Strategy was to provide approximately \$2.2 B (2020\$) in support of the 2022 - 2031 capital program. The 2022 Strategy calls for funding of approximately \$2.3 B (2021\$) to support the 2023 – 2031 capital program.

Charts 2 and 3 highlight the 2022 Strategy relative to the previously approved 2021 Strategy.

**Chart 2**



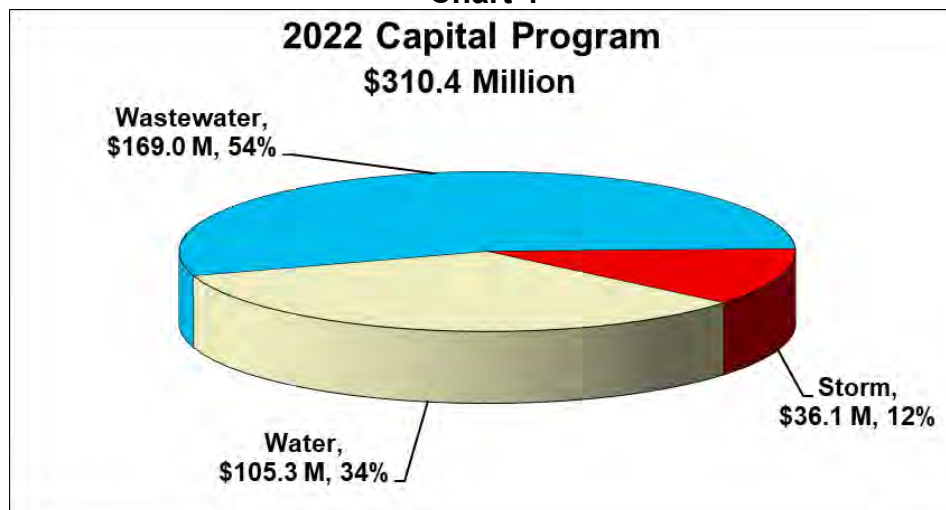
**Chart 3**



The recommended 2022 Rate Supported Financing Strategy endeavours to achieve a balance between capital investment needs, rate of growth and rate stability. The 2022 Rate Supported Financing Strategy links forecast water demand and estimated wastewater discharge with a staged approach to necessary capital investments at the Woodward Wastewater Treatment Plant (WWTP). The current strategy calls for capital funding in 2022 of approximately \$310.4 M (2021\$) and \$2.70 B (2021\$) for the 2022 – 2031 timeframe. The 2022 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 4 provides a breakdown of the 2022 Rate Capital Program totalling \$310.4 M, by the three major program areas: Water, Wastewater and Storm.

**Chart 4**



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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget (FCS21088) (City Wide) – Page 10 of 32**

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Report FCS21088 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 FCS21088 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 30**

**FINANCIAL – STAFFING – LEGAL IMPLICATIONS**

**Financial:** As per Recommendation (l) of Report FCS21088, approval of the 2022 Water, Wastewater and Stormwater Supported Operating Budget will support operating and capital financing expenditures of \$257,850,912 for 2022.

**Staffing:** The 2022 Rate Supported staffing complement reflects a requested increase of 10.0 FTE as reflected in Appendix “F” to Report FCS21088.

**Legal:** Recommendation (p) of Report FCS21088 relates to By-laws requiring Council approval, respecting the implementation of 2022 water and wastewater user fees and charges set out in the Recommendations (a) through (k) of Report FCS21088.

**HISTORICAL BACKGROUND**

The 2022 Rate Budget continues to support the priority of investing in infrastructure as evidenced by the 2022 to 2031 forecast investment of approximately \$2.70 B in water, wastewater and stormwater capital infrastructure.

Report FCS21088 outlines the various aspects and components that the recommended 2022 Rate Supported strategy incorporates:

- Sustainable Rate Strategy
- Proposed 2022 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 2022 - 2031 financing plan.

## **RELEVANT CONSULTATION**

Public Works, Hamilton Water Division, provided operating / capital expenditure and non-rate revenue forecasts as reflected in Report FCS21088.

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

## **ANALYSIS AND RATIONALE FOR RECOMMENDATIONS**

Appendix “A” to Report FCS21088 summarizes the 2022 operating budget expenditures (program and capital financing) and revenues of \$257.9 M compared to the 2021 restated budget of \$245.6 M.

The 2022 Operating expenditures in the 2022 Requested Budget of \$98.4 M reflect an increase of \$7.8 M or 8.6% over the 2021 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 2022 Rate Operating Budget expenditures contains the request for 10 new full-time equivalent (FTE) employees. The net operating cost of the request is approximately \$917 K. The FTE requests are largely driven by regulatory pressures, business benefits and operating impacts from capital. For the full FTE request details, please refer to Appendix “F” to Report FCS21088.

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

## **2022 Proposed Rate Increases**

The recommended 2022 Rate Supported Strategy differs slightly from the Strategy approved by Council, in principle, for 2021. Staff had forecast the need for a combined 4.05% rate increase in 2022. Based on the need to fund an escalating Capital program and increased operating costs, staff recommend that Council approve a 2022 rate increase of 4.98%, 0.93% higher than previously forecast increasing the average annual residential bill to approximately \$824.

In October 2021, Council approved a revised Water Leak Adjustment Policy (Policy) that will come into effect January 1, 2022 (for details please refer to Report FCS21087 /

LS21037). The residential leak protection program is intended to be cost-neutral for the City and, as such, the associated insurance premium fees borne by the City will be recovered from the fixed charges applied to residential water accounts. The water daily fixed charge has been increased by one cent which represents a rate increase of 0.46%

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 2022 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**

	<b>2021</b>	<b>2022</b>	<b>Increase</b>
<b>Water</b>			
Fixed Charge (daily) <sup>1</sup>	\$0.38	\$0.41	\$0.03
Consumption Charge Block 1 (0-10 cubic metres / month)	\$0.85	<b>\$0.89</b>	\$0.04
Consumption Charge Block 2 (>10 cubic metres / month)	\$1.70	<b>\$1.77</b>	\$0.07
<b>Wastewater / Storm</b>			
Fixed Charge (daily) <sup>1</sup>	\$0.42	<b>\$0.44</b>	\$0.02
Treatment Charge Block 1 (0-10 cubic metres / month)	\$0.91	<b>\$0.95</b>	\$0.04
Treatment Charge Block 2 (>10 cubic metres / month)	\$1.82	<b>\$1.89</b>	\$0.07

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

**Trends in Combined Rate Changes 2013-2022**

Hamilton's overall average annual combined water and wastewater / storm rate increase is 4.5% before adjusting for inflation during the 10-year period from 2013 to 2022. Accounting for inflation results in the overall average, the annual rate increase over the same period would be 2.8%. Chart 5 shows the trend in Hamilton's combined water and wastewater / storm rates for the period 2013 to 2022.

**Chart 5**



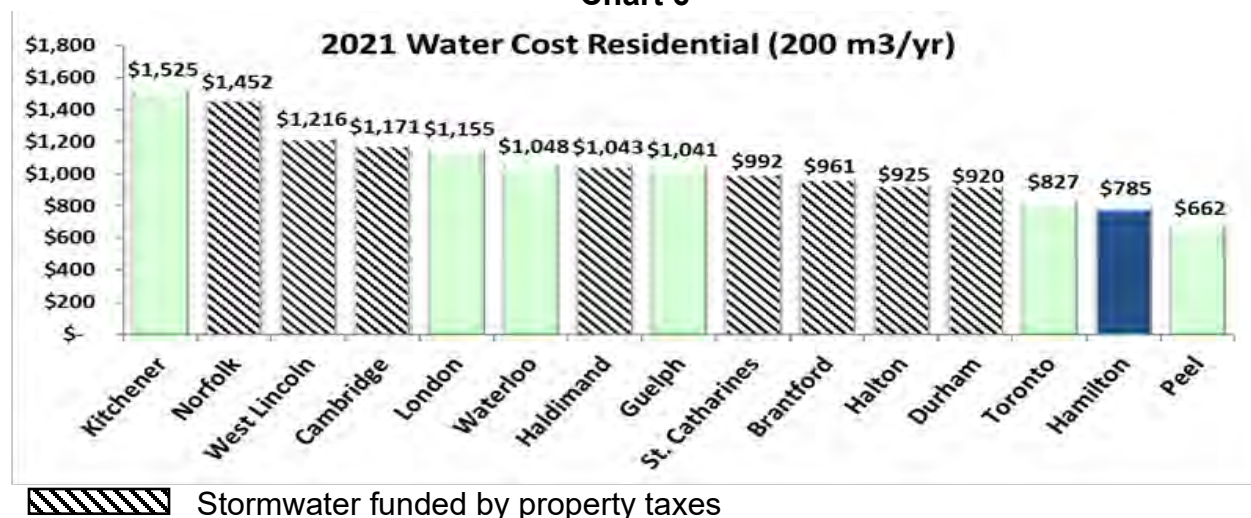
**Comparative Rates**

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 4.5% before adjusting for inflation.

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

In 2021, Hamilton’s residential annual water and wastewater / storm bill continued to be the second lowest within its local municipal comparator group. Though Hamilton largely funds its stormwater management program through its wastewater / storm fee, it still has been able to maintain competitive rates as reflected in Chart 6.

**Chart 6**





## **Affordability**

In preparation of the recommended combined rate increase for 2022 and considering the pandemic's impact on all ratepayers, an assessment of ratepayers' ability to pay current water and wastewater / storm billings during 2021 has been completed. Ability-to-pay is primarily a function of income related to the cost of living. Fixed costs, such as housing, property taxes, utilities and other necessities take a smaller share of household income for households with higher income levels.

A review of BMA Management Consulting's 2020 Municipal Survey (108 Ontario municipalities participation) indicates that while Hamilton's median household income of \$98,496 is below the survey median \$101,737, Hamilton's average residential water and wastewater annual bill of \$753 represents 0.8% of household income that compares favourably to the survey average of 1.1%.

Arguably, a more accurate measure of affordability may be to review water bill delinquency rates. Per the City's Arrears Policy unpaid water and wastewater / storm arrears that remain unpaid 60 days past the invoice due date are transferred to the property's tax roll. Alectra reports this metric within their annual service activity report (for details refer to Report FCS21089). Alectra is forecasting there will be an increase of nearly 2,000 tax roll arrears transfers in 2021 over 2020 which amounts to an increase of approximately \$300 K in the associated dollar value being transferred over last year.

From 2017 to 2021, the number of unpaid arrears tax roll transfers has more than doubled over the five-year period from approximately 11,700 transfers to 23,000 transfers. With respect to transferred arrears amounts, about \$2.3 M was transferred in 2017 and \$4.4 M is forecasted for 2021 (91% increase). It should be noted that the change to monthly residential billing was completed in June 2017 and generally speaking, more frequent billing was expected to help with the ability to manage bills. Hence, the increase in arrears transfers since 2017 is most concerning as approximately 90% of arrears transfers are related to residential accounts. Prior to 2017, a significant portion of arrears transfers were associated with large commercial / industrial accounts.

In January 2020, the minimum arrears threshold amount for an active account was increased to \$100 from \$75 in an attempt to provide more time for outstanding lower arrears amounts to be addressed before tax roll transfers occur. Approximately, 30% of arrears transfers in 2019 were for arrears amounts between \$75 and \$100. However, the expected reduction in the number of arrears transfers was not realized as the number of transfers increased by 5% in 2020. The minimum arrears threshold amount for an active account will increase to \$125 as of January 1, 2022. It should be noted that an administrative fee is applied by Taxation for each arrears tax roll transfer

occurrence (for 2021, the fee is \$36.02 plus H.S.T.). Staff will continue to monitor water bill delinquency rates on an ongoing basis to gauge the impact of increasing water bills.

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

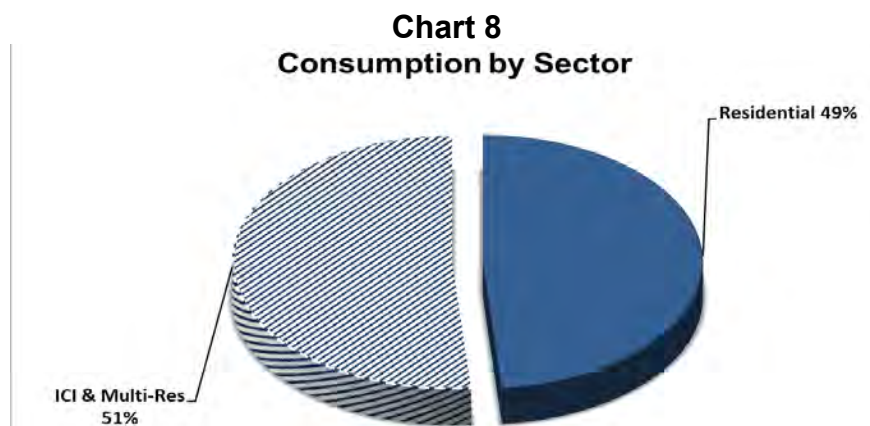
## **CONSUMPTION AND RATE-GENERATED REVENUES**

### **Metered Water Consumption**

Currently, the City of Hamilton has over 154,000 metered water accounts (see Chart 7). Residential users account for 93% of total metered accounts and approximately 49% 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 comprises 51% of total consumption (see Chart 8).



Revenues associated with consumption represents approximately 94% of the total budgeted Rate revenues of \$229.0 M for 2021 or \$240.4 M for 2022.



**Total Consumption – 2022 Budget \$240.4 M**

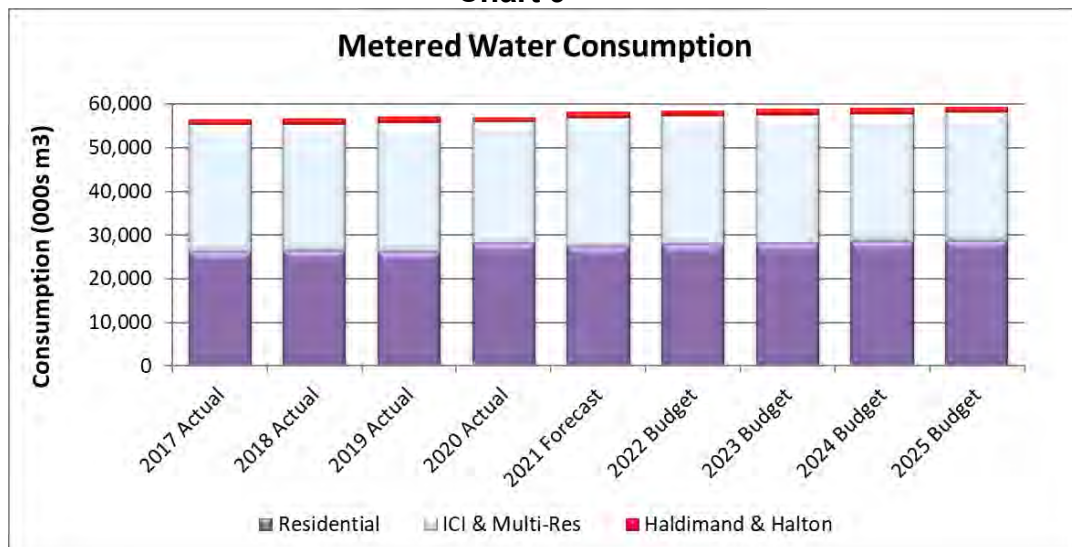
Since 2017, Hamilton’s total metered annual water consumption (see Chart 9) has remained at approximately 56-59 million cubic metres. The 2021 projected total consumption is just over 57 million cubic metres. The 2022 Budget of 58.4 M cubic metres is approximately 0.3% above the consumption in the 2021 Budget.

Total water consumption forecast over the 10-year period (2022 to 2031) reflects relatively flat consumption demand. This relatively conservative forecast reflects the following:

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

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 9**



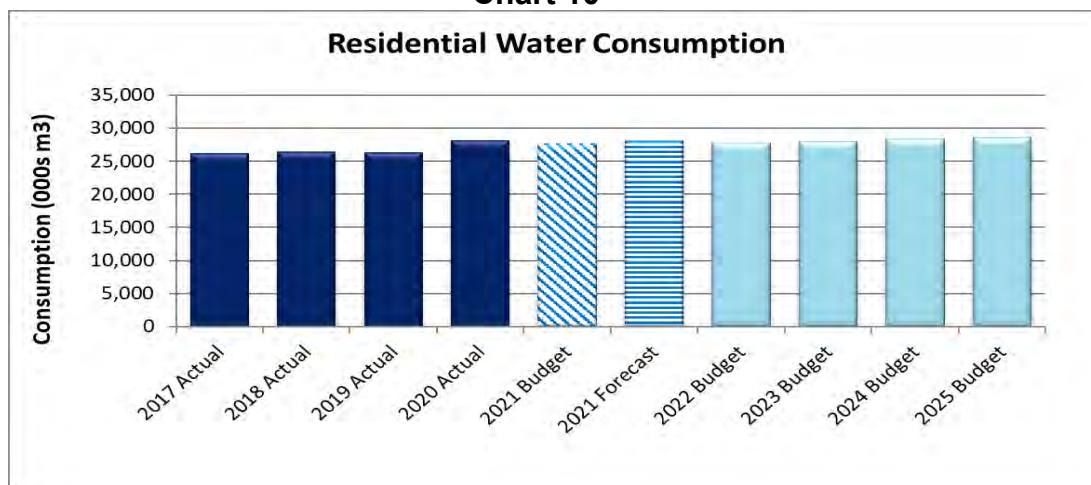
**Residential Consumption – 2022 Budget \$113.9 M**

Since 2017, residential consumption (see Chart 10) 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 2022, staff is recommending that the forecast for average residential consumption remain at 200 m<sup>3</sup> to reflect the past several years of consumption for an estimate of 27.7 M cubic metres.

It is not clear how much further average residential consumption can decline, but there exists the potential for further declines, principally due to conservation efforts and associated regulations. 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 10**

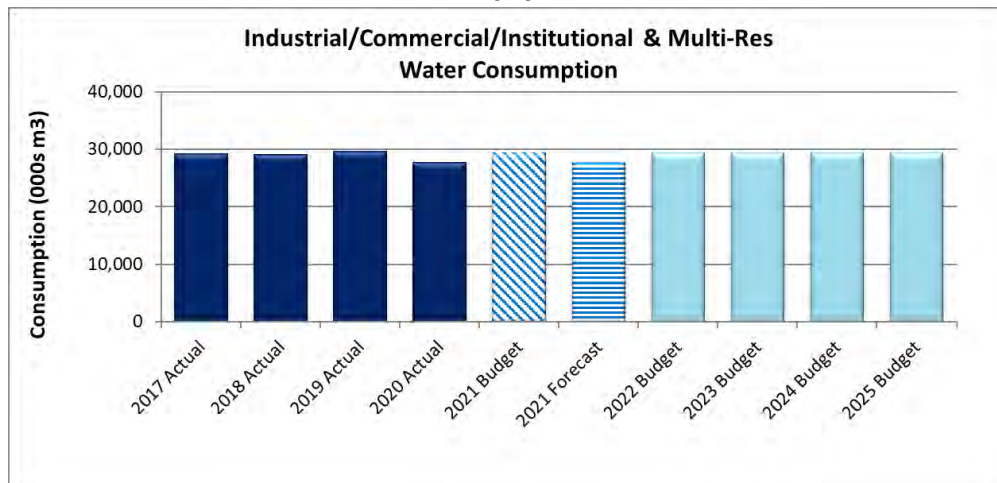


**Industrial / Commercial / Institutional and Multi-Res Consumption – 2022 Budget \$123.3 M**

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

In sharp contrast to many neighbouring communities, Hamilton is unique in that a significant portion of consumption and, in turn, revenues come from industrial and institutional customers. The top users of the ICI / Multi-res sector representing some 40 customers account for nearly a quarter of total consumption. This reliance on a relatively small number of large water users does pose a risk to revenue stability when these customers undertake water conservation projects or experience business failure. As reflected in Chart 11, water consumption demand is forecast to remain relatively flat for the ICI / Multi-res sector at 29.3 M cubic metres for the 2022 Budget.

**Chart 11**



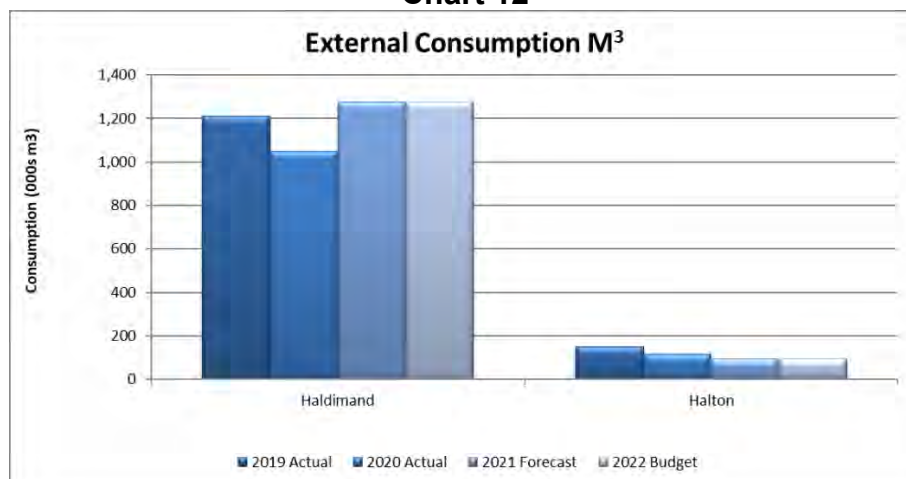
**External Consumption – 2022 Budget \$3.1 M**

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

A renewed water supply agreement with Haldimand was executed in 2014 for an initial 20-year period with Hamilton supplying water to the communities of Caledonia and Cayuga.

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

**Chart 12**



## **OTHER REVENUE HIGHLIGHTS**

### **Sewer Discharge Permits – 2022 Budget \$9.8 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 – 2022 Budget \$2.9 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 FCS21088 provides details of the user fees and charges that are applicable for various water / wastewater related services provided on an individual basis to customers such as new meter installations, water service turn on or off, laboratory services, etc.

### **Private Fire Lines – 2022 Budget \$2.0 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.

### **2022–2031 Rate Capital Budget**

Table 4 and Appendices "H", "J", "M" and "P" to report FCS21088 summarizes the \$2.7 B capital program and the financing requirements for the 2022–2031 water, wastewater and storm capital budget. Of this amount, \$1.069 B (40%) is for water, \$1.275 B (47%) is for wastewater and \$0.355 B (13%) is for the storm program. A total of \$825 M or 31% of the 10-year capital program is required in the first three years (2022–2024). Significant projects include the Woodward Wastewater Treatment Plant (WWTP) Upgrade, Greenhill Pumping Station Upgrades, Airport Lands Trunk Sewer and Battlefield Trunk Sewer Twinning.

The capital program also includes \$667 M for growth infrastructure related to the current Growth Related Integrated Development Strategy (GRIDS), which will be funded from Development Charges except for an estimated \$90 M in Development Charge (DC) exemptions that 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.



**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget  
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**Table 4  
SOURCE OF CAPITAL FINANCING  
2022 to 2031 RATE PROGRAM CAPITAL BUDGET  
\$(000'S)**

	2022	2023	2024	2025	2026 to 2031	2022 to 2031
<b>WATER</b>						
<b>Capital Program</b>	<b>105,271</b>	<b>111,222</b>	<b>148,240</b>	<b>157,650</b>	<b>546,254</b>	<b>1,068,637</b>
<u>Source of Funding</u>						
Subsidy/Other Revenue	3,498	-	2,004	8,100	-	13,602
Development Charges	26,127	29,882	40,671	44,189	73,939	214,807
Reserves & Other Internal Sources	19,007	640	640	640	3,840	24,767
Contribution from Operating	39,540	72,200	84,926	94,722	457,275	748,661
External Debt	17,100	8,500	20,000	10,000	11,200	66,800
<b>Total</b>	<b>105,271</b>	<b>111,222</b>	<b>148,240</b>	<b>157,650</b>	<b>546,254</b>	<b>1,068,637</b>
<b>WASTEWATER</b>						
<b>Capital Program</b>	<b>169,020</b>	<b>82,005</b>	<b>106,565</b>	<b>93,275</b>	<b>824,149</b>	<b>1,275,014</b>
<u>Source of Funding</u>						
Subsidy/Other Revenue	4,000	-	2,720	7,000	-	13,720
Development Charges	39,241	18,059	24,634	6,564	294,405	382,901
Reserves & Other Internal Sources	19,996	9,000	5,000	-	-	33,996
Contribution from Operating	73,784	47,226	36,791	46,481	514,514	718,797
External Debt	32,000	7,720	37,420	33,230	15,230	125,600
<b>Total</b>	<b>169,020</b>	<b>82,005</b>	<b>106,565</b>	<b>93,275</b>	<b>824,149</b>	<b>1,275,014</b>
<b>STORM SEWERS</b>						
<b>Capital Program</b>	<b>36,145</b>	<b>29,890</b>	<b>36,475</b>	<b>23,530</b>	<b>228,840</b>	<b>354,880</b>
<u>Source of Funding</u>						
Subsidy/Other Revenue	75	75	2,075	5,275	6,390	13,890
Development Charges	19,160	10,175	10,055	4,000	25,540	68,930
Reserves & Other Internal Sources	5,145	-	-	-	-	5,145
Contribution from Operating	11,765	19,640	24,345	14,255	176,010	246,015
External Debt	-	-	-	-	20,900	20,900
<b>Total</b>	<b>36,145</b>	<b>29,890</b>	<b>36,475</b>	<b>23,530</b>	<b>228,840</b>	<b>354,880</b>
<b>TOTAL RATE PROGRAM</b>						
<b>Capital Program</b>	<b>310,436</b>	<b>223,117</b>	<b>291,280</b>	<b>274,455</b>	<b>1,599,243</b>	<b>2,698,531</b>
<u>Source of Funding</u>						
Subsidy/Other Revenue	7,573	75	6,799	20,375	6,390	41,212
Development Charges	84,527	58,116	75,359	54,752	393,885	666,638
Reserves & Other Internal Sources	44,148	9,640	5,640	640	3,840	63,908
Contribution from Operating	125,089	139,066	146,062	155,458	1,147,798	1,713,473
External Debt	49,100	16,220	57,420	43,230	47,330	213,300
<b>Total</b>	<b>310,436</b>	<b>223,117</b>	<b>291,280</b>	<b>274,455</b>	<b>1,599,243</b>	<b>2,698,531</b>

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Chart 13 illustrates the \$2.70 B capital program for the 2022–2031 water, wastewater and storm capital budget.

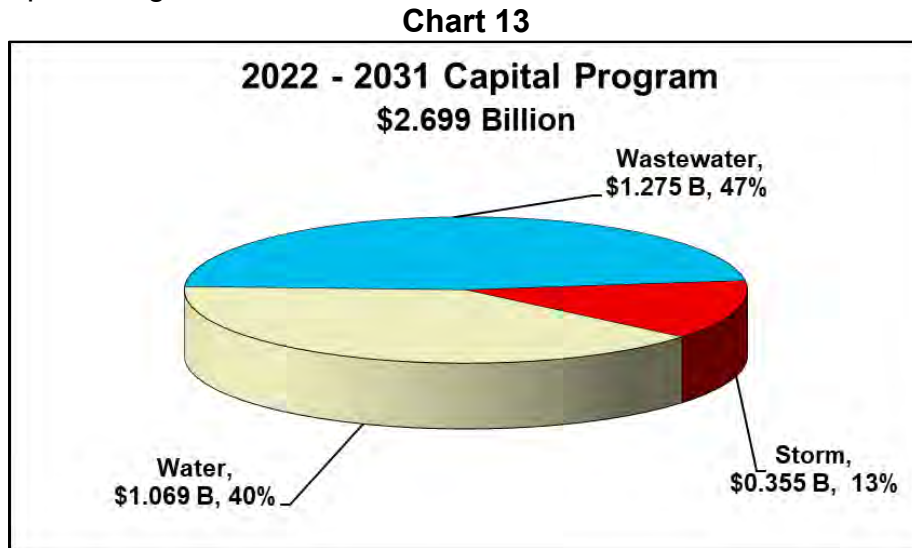
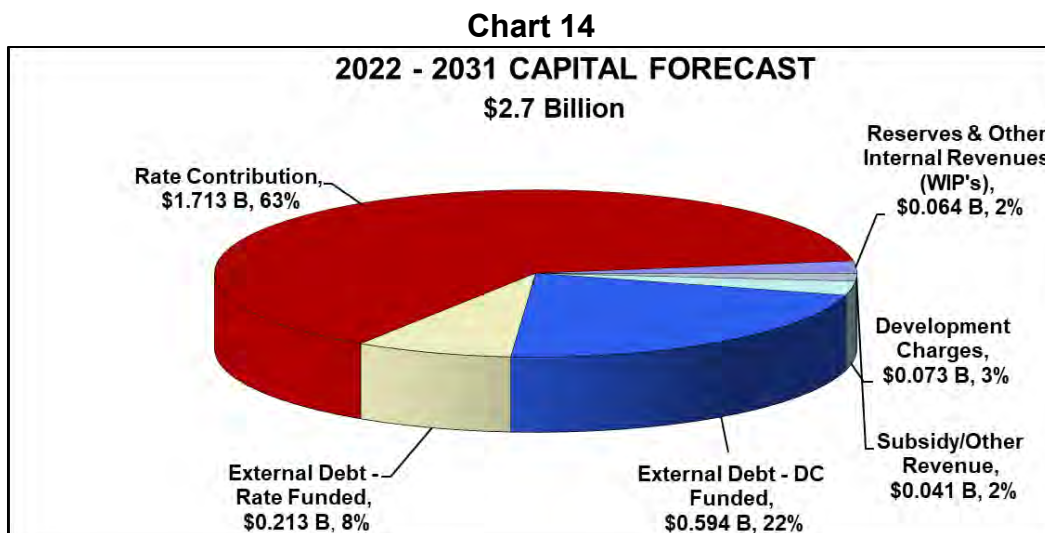


Chart 14 provides the sources of capital financing for the 2022–2031 forecast period. The growth-related infrastructure investment included in the 2022–2031 forecast to accommodate for growth is \$667 M, including \$594 M from DC funded external debt and \$73 M from development charges. Debt charges associated with DC funded debt will be recovered from development charges over the terms of issuance.

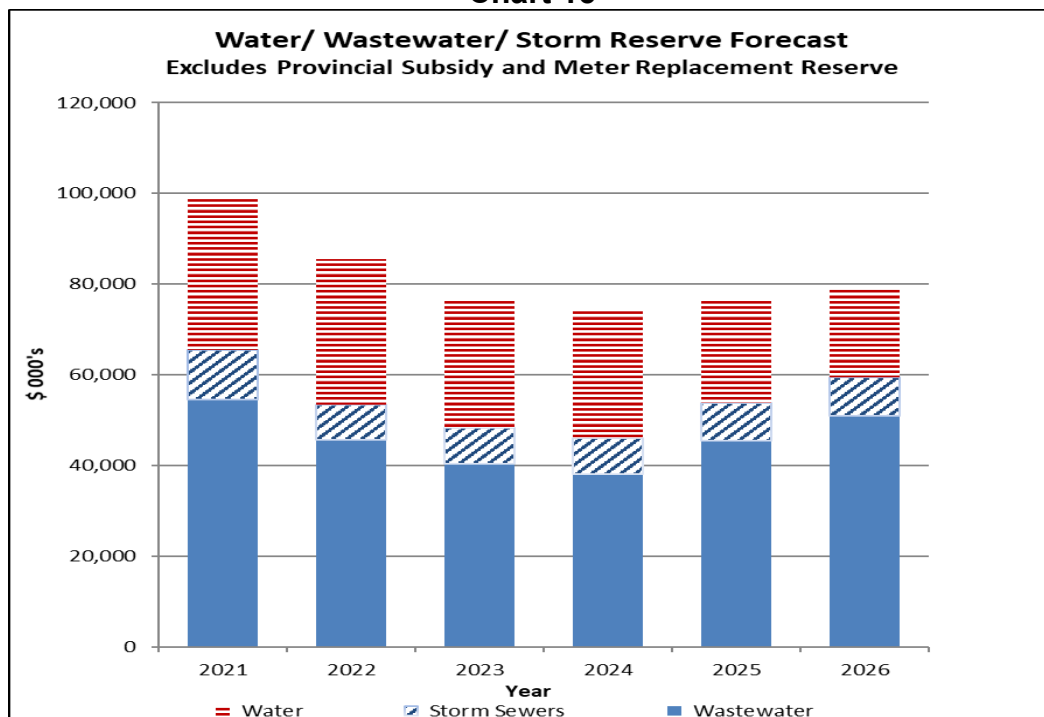
The 2022–2031 Capital Forecast includes \$15.2 M in funding from capital work-in-progress (WIP's). The Financing Plan for the 2022-2031 water, wastewater and storm capital program requires a net draw from reserves of \$48.7M, helping to mitigate reliance on rate supported debt for the delivery of capital works.



**Rate Reserves**

Chart 15 provides the projected reserve balances for the Water, Wastewater and Storm programs. The 2022 Budget Forecast reflects utilizing \$9.1 M in reserve funds for the Chedoke Creek project and \$12.6 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 15**



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

The combined reserve balances will decrease from \$99 M at the end of 2021 to \$79 M in 2026 and then stabilize over the remaining years in the 2027 to 2031 forecast under the proposed Capital Financing Plan. 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 and the Chedoke Creek and Cootes Paradise workplan. All three system Reserves are within the target balances relative to the Rate Reserve Policy approved by Council in June 2016.

**Woodward Wastewater Treatment Upgrade and Expansion Project**

The implementation plan for the upgrade and expansion of the WWTP is consistent with the 2021 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 \$315 M of the total growth component related to Phase Two is in the 2022-2031 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 increased by \$30.9 M compared to the 2021 budget forecast. The change can be attributed to the 2022 budget using the 2019 DC background study and the 2021 budget using the 2014 DC background study. Table 5 provides a summary.

The WWTP expansion project implementation plan has remained unchanged when compared to the 2021 forecast but has been updated with revised cost estimates. 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 (2022 – 2025) 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**

<b>Woodward Wastewater Treatment Plant Project - Gross Capital Forecasts</b>												
<b>(\$ Millions)</b>												
		<b>pre</b>										
	<b>Total</b>	<b>2022</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>
<b>2022 Budget</b>												
Phase 1 - Clean Harbour	424.6	386.7	37.9									-
Phase 2 - Expansion	314.7	5.0	4.5	4.5	5.7	5.7	98.2	95.5	95.6			-
Total WWTP	739.3	391.7	42.4	4.5	5.7	5.7	98.2	95.5	95.6	-	-	-
<b>2021 Budget</b>												
Phase 1 - Clean Harbour	412.0	386.8	25.2	-	-	-	-	-	-	-	-	-
Phase 2 - Expansion	296.4	5.1	2.5	2.5	3.1	3.1	94.3	92.9	92.9	-	-	-
Total WWTP	708.4	391.9	27.7	2.5	3.1	3.1	94.3	92.9	92.9	-	-	-
<b>Increase (Decrease)</b>												
Phase 1 - Clean Harbour	12.6	(0.1)	12.7	-	-	-	-	-	-	-	-	-
Phase 2 - Expansion	18.3	(0.1)	2.0	2.0	2.6	2.6	3.9	2.6	2.7	-	-	-
Total WWTP	30.9	(0.2)	14.7	2.0	2.6	2.6	3.9	2.6	2.7	-	-	-

**Chedoke Creek – Cootes Paradise Workplan**

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

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

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

In addition to the order, City Council directed Hamilton Water staff to meet with Royal Botanical Gardens staff to review potential solutions to Chedoke Creek and report back to the General Issues Committee with their findings. As a result, the Chedoke Creek Water Quality Improvement Study was developed and finalized to proactively address some requirements of the order. Contributions from the study were included in the development of the Cootes Paradise Report and subsequently applied in the development of the Cootes Paradise Workplan.

Table 6 details the capital investment that has been included in the 2022-2031 rate supported capital forecast to meet the requirements of the initial Chedoke Creek and Cootes Paradise Workplan with the majority of funding coming from reserves.

**Table 6**

<b>Chedoke Creek - Cootes Paradise Workplan</b>							
<b>(\$000's)</b>							
	<b>Total</b>	<b>Pre-2022</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026-2031</b>
Chedoke Creek Water Quality Improvements (CASH FLOWED)	12,450	1,050	9,050	1,250	1,100	-	
Lower Chedoke Combined EA Study	7,230		280	1,650	1,100	2,100	2,100
Chedoke Watershed Stormwater Retrofit EA Study	11,980		280	1,100	3,150	3,150	4,300
<b>Total</b>	<b>31,660</b>	<b>1,050</b>	<b>9,610</b>	<b>4,000</b>	<b>5,350</b>	<b>5,250</b>	<b>6,400</b>

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## **Provincial / Federal Subsidy Programs**

In 2018, the Government of Canada launched the Disaster Mitigation and Adaptation Fund (DMAF) committing \$2 B over 10 years to invest in structural and natural infrastructure projects to increase the resilience of communities that are impacted by natural disasters triggered by climate change. In 2021, an additional \$1.375 B in federal funding over 12 years was announced to renew the DMAF.

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.

Through Report FCS21090, staff has proposed projects for the City's application for the second intake under that DMAF program for approval by Council. The potential funding contribution from the DMAF would enhance the City's ability to address built infrastructure, such as, escarpment biodiversity and stability, trail asset condition and wastewater and stormwater asset additions and enhancements. Total estimated project spending equates to \$106 M (\$82.4 M in rate supported projects and \$23.5 M in tax supported projects) with \$41 M from DMAF and \$65 M of City share, cash flowed over a 10-year period.

The majority of the proposed projects in the City's application are currently in the 10-year Tax and Rate Capital forecasts. However, eight projects are not included in the 10-year forecast and an additional six projects are partially funded. Should this application be successful, staff will report back with a recommended financing strategy to accommodate the City's portion of these projects.

## **Addressing Climate Change**

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

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

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A key piece of work is the Community Energy and Emissions Plan, which is a long-term plan to meet Hamilton’s future energy needs while improving energy efficiency, reducing greenhouse gas emissions and fostering local sustainable and community-supported energy solutions. A draft of the Community Energy and Emissions Plan is anticipated to be brought to the General Issues Committee in late 2021 or early 2022.

**Projected Water / Wastewater / Storm Debt**

The 2022 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 2022–2031 has increased by \$142.5 M from the 2021 Rate Budget.

The forecasted DC supported debt financing has increased by approximately \$111.7 M over the same period, resulting in an overall net increase in forecasted debt financing of \$111.7 M from the forecast in the 2021 Rate Budget. The increase in reliance on DC supported debt is attributable to the increased cost estimate of the Woodward Wastewater Treatment Plant Expansion and various new projects. The Growth Capital is partially offset with a \$15 M contribution from DC reserves in the 2022 Rate Budget.

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 \$377 M in 2025, compared with the 2021 budget forecasted debt peak of \$288 M in 2024. The debt funded from DC’s is projected to peak at \$743 M in 2028, whereas the 2021 budget was \$641 M in 2028.

Table 7 provides the multi-year debt forecast compared to the 2021 Budget forecast.

**Table 7**

<b>Projected Rate &amp; DC Supported Outstanding Debt</b>											
<b>(\$ Millions)</b>											
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
<b>2021 Rate Budget</b>											
Funded from Rates	199	258	271	288	273	246	220	194	167	143	118
Funded from DC's	115	227	338	402	403	493	578	641	609	575	540
<b>Total</b>	<b>314</b>	<b>485</b>	<b>609</b>	<b>690</b>	<b>676</b>	<b>739</b>	<b>798</b>	<b>835</b>	<b>776</b>	<b>718</b>	<b>658</b>
<b>2022 Rate Budget</b>											
Funded from Rates	140	214	250	323	377	347	327	306	288	255	221
Funded from DC's	4	139	251	372	473	586	676	743	707	669	631
<b>Total</b>	<b>144</b>	<b>353</b>	<b>501</b>	<b>695</b>	<b>850</b>	<b>933</b>	<b>1003</b>	<b>1049</b>	<b>995</b>	<b>924</b>	<b>852</b>
<b>Increase (Decrease)</b>	<b>(170)</b>	<b>(132)</b>	<b>(108)</b>	<b>5</b>	<b>174</b>	<b>194</b>	<b>205</b>	<b>214</b>	<b>219</b>	<b>206</b>	<b>194</b>

Consistent with the 2021 Rate Budget and to more accurately forecast debt levels and the associated debt charges, the major multi-year Wastewater Treatment Plant projects

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are budgeted based on the projected cash flow of expenditures for the 2022 Rate Capital Budget, versus full commitment-based budgeting.

Chart 16 compares the total outstanding debt (Rate and DC Funded) from the 2021 Budget forecast to the 2022 Budget forecast. The graph illustrates the lower debt requirements for 2021-2023 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 16**

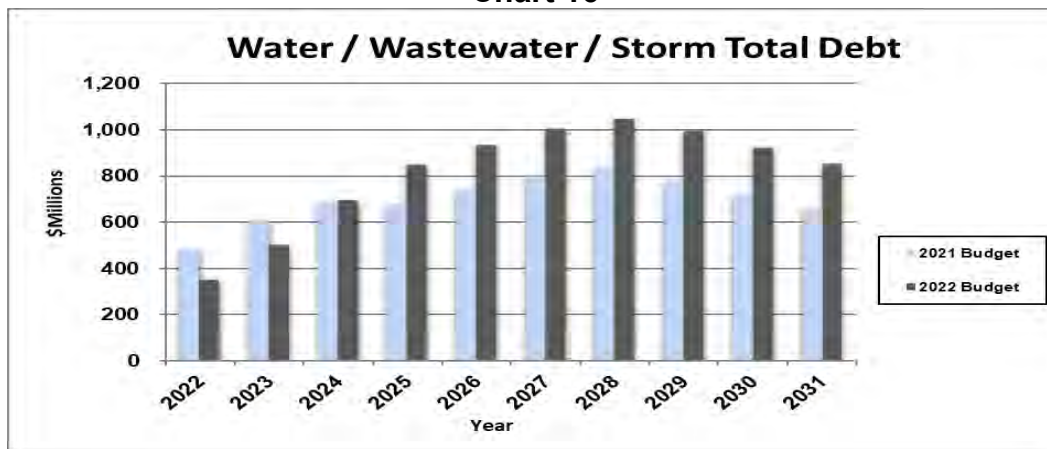


Chart 17 illustrates the projected outstanding debt for the 10-year period (2022–2031) and the funding source of the associated debt charges.

**Chart 17**



Chart 18 shows the forecasted debt charges funded by water / sewer rates and by Development Charges. In the upcoming years, staff in Corporate Services and in

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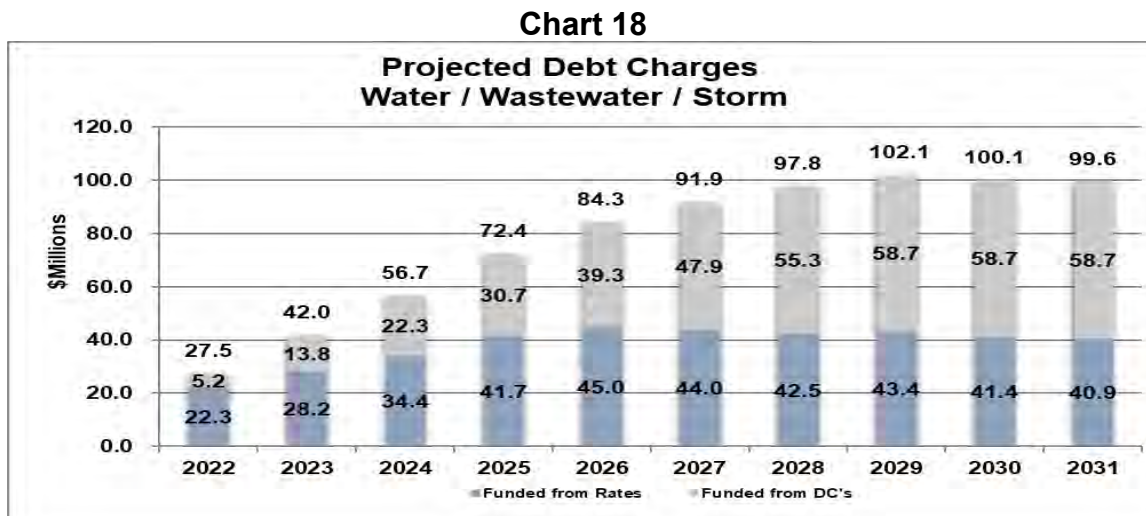
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conjunction with staff in Public Works will monitor the forecasted DC Debt charges in comparison to DC Revenue, to mitigate potential risks to the rate payer. Much of this risk lies with the implementation plan of the WWTP expansion project, currently forecasted for construction in years 2026-2028.



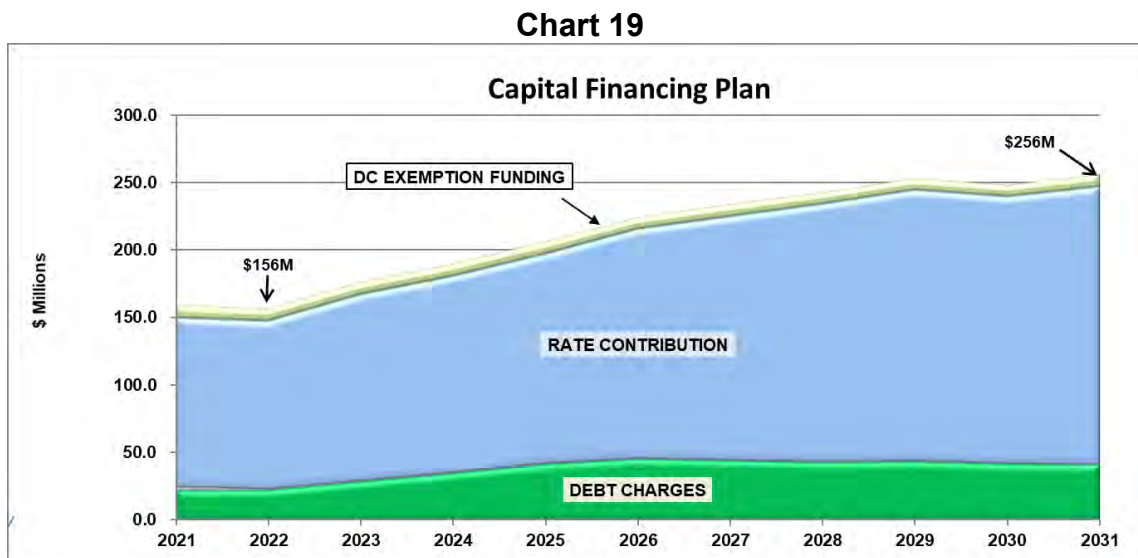
**Impact of Capital Budget on Operating Budget**

As summarized in Table 8, the 2021 Rate Budget incorporates \$156.0 M capital financing costs which is an increase of \$1.5 M from the 2021 Rate budget. The 2022 budgeted debt charges increase by \$1.8 M, while contribution to capital and DC exemption funding remain the same compared to the 2021 budget.

**Table 8**

<b>WATER, WASTEWATER &amp; STORM</b>					
<b>IMPACT OF CAPITAL ON OPERATING BUDGET</b>					
(000's)					
	2021 <u>APPROVED</u>	2022 <u>PROPOSED</u>	<u>CHANGE</u>		<u>2022 - 2031</u> <u>FORECAST</u>
			\$	%	
Debt to be Issued	48,000	49,100	1,100	2.3%	213,300
Debt Charges (Net of DCs)	20,534	22,349	1,815	8.8%	383,880
Contribution to Capital	125,369	125,089	(280)	-0.2%	1,713,473
DC Exemption Funding	9,000	9,000	0	0.0%	90,000
<b>Impact on Operating Budget</b>	<b>154,903</b>	<b>156,438</b>	<b>1,535</b>	<b>1.0%</b>	<b>2,187,354</b>

Chart 19 highlights the impact on the operating budget from the Rate Supported Capital program. These impacts are projected to increase from \$156 M in 2022 to \$256 M in 2031. Rate supported debt charges are expected to increase from 8.7% of total revenues in 2022 to 13.2% in 2026 and then decline to 9.9% in 2031.



### 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 2021 ARL in the amount of \$291,914,218 and is based on 2019 Financial Information Returns.

Using this 2021 ARL, the City Treasurer has calculated an updated ARL of \$219,967,107, shown in Appendix “T” to Report FCS21088. The 2021 ARL was adjusted for possible debt service charges of \$71,947,111 corresponding to approximately \$955.5 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 \$219,967,107, 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 \$2.6 B of additional borrowing which the City could undertake (assuming a 15-year term and 3% 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 2022 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 FCS21088 – 2022 Hamilton Water, Wastewater and Storm Operating Budget – Combined Water, Wastewater and Storm

Appendix “B” to Report FCS21088 – 2022 Hamilton Water Operating Budget – Water

Appendix “C” to Report FCS21088 – 2022 Hamilton Wastewater and Storm Operating Budget – Combined Wastewater and Storm

Appendix “D” to Report FCS21088 – 2022 Hamilton Wastewater and Storm Operating Budget – Wastewater

Appendix “E” to Report FCS21088 – 2022 Hamilton Wastewater and Storm Operating Budget – Storm

**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget  
(FCS21088) (City Wide) – Page 31 of 32**

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Appendix “F” to Report FCS21088 – Hamilton Water – 2022 Rate Supported Staffing Summary and 2022 Rate Budget – Business Case Summary – Public Works

Appendix “G” to Report FCS21088 – 2022 Water and Wastewater / Storm Fees and Charges, Effective January 1, 2022 – 2022 Private Fire Line Rates – 2022 Proposed User Fees and Charges

Appendix “H” to Report FCS21088 – Source of Capital Financing – 2022 to 2031 Rate Program Capital Budget

Appendix “I” to Report FCS21088 – 2022 to 2031 Water / Wastewater / Storm Capital Financing Plan

Appendix “J” to Report FCS21088 – Source of Capital Financing – 2022 to 2031 Rate Program Capital Budget – Water

Appendix “K” to Report FCS21088 – Water System – 2022 Capital Budget Project List

Appendix “L” to Report FCS21088 – Water System – 2022 to 2031 Capital Budget List

Appendix “M” to Report FCS21088 – Source of Capital Financing – 2022 to 2031 Rate Program Capital Budget – Wastewater

Appendix “N” to Report FCS21088 – Wastewater System – 2022 Capital Budget Project List

Appendix “O” to Report FCS21088 – Wastewater System – 2022 to 2031 Capital Budget List

Appendix “P” to Report FCS21088 – Source of Capital Financing – 2022 to 2031 Rate Program Capital Budget – Storm Sewers

Appendix “Q” to Report FCS21088 – Storm Water Management – 2022 Capital Budget Project List

Appendix “R” to Report FCS21088 – Storm Water Management – 2022 to 2031 Capital Budget List

Appendix “S” to Report FCS21088 – 2022 Rate Program Capital Budget Summary

Appendix “T” to Report FCS21088 – City of Hamilton Treasurer’s Updated 2021 Annual Repayment Limit

Appendix “U” to Report FCS21088 – Amendments to By-law 03-272

**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget  
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Appendix “V” to Report FCS21088 – Amendments to By-law 06-026

Appendix “W” to Report FCS21088 – Amendments to By-law R84-026

## CITY OF HAMILTON

## 2022 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

## COMBINED WATER, WASTEWATER AND STORM

	2021 RESTATED BUDGET	2021 PROJECTED ACTUAL	2022 REQUESTED BUDGET	CHANGE 2021 PROJECTED ACTUAL / 2021 RESTATED BUDGET	CHANGE 2022 REQUESTED / 2021 RESTATED BUDGET
	\$	\$	\$	\$ %	\$ %
<b>OPERATING EXPENDITURES:</b>					
Divisional Administration & Support	2,464,490	2,612,750	2,369,122	(148,260) (6.0%)	(95,368) (3.9%)
Woodward Upgrades	1,735,670	1,835,177	1,764,829	(99,507) (5.7%)	29,159 1.7%
Customer Service	325,250	247,934	329,279	77,317 23.8%	4,029 1.2%
Outreach & Education	1,093,813	758,530	1,111,320	335,283 30.7%	17,507 1.6%
Service Co-ordination	3,500,605	3,221,147	3,581,202	279,459 8.0%	80,597 2.3%
Engineering Systems & Data Collection	1,172,372	571,107	1,153,746	601,265 51.3%	(18,626) (1.6%)
Compliance & Regulations	1,005,054	959,455	1,019,823	45,600 4.5%	14,769 1.5%
Laboratory Services	3,553,884	3,705,037	3,743,598	(151,153) (4.3%)	189,714 5.3%
Environmental Monitoring & Enforcement	2,215,026	2,099,337	2,478,749	115,689 5.2%	263,723 11.9%
Water Distribution & Wastewater Collection	21,894,147	23,871,167	24,122,428	(1,977,020) (9.0%)	2,228,282 10.2%
Plant Operations	27,373,740	29,010,320	30,409,180	(1,636,580) (6.0%)	3,035,440 11.1%
Plant Maintenance	10,815,523	10,729,602	11,708,771	85,922 0.8%	893,248 8.3%
Capital Delivery	2,072,271	2,144,734	2,254,575	(72,463) (3.5%)	182,304 8.8%
Watershed Management	1,275,560	1,016,538	1,382,313	259,022 20.3%	106,753 8.4%
Infrastructure Planning & System Design	2,632,320	2,589,714	2,672,939	42,606 1.6%	40,619 1.5%
Wastewater Abatement Program	1,192,450	887,579	1,142,450	304,872 25.6%	(50,000) (4.2%)
Alectra Utilities Service Contract	5,712,000	5,733,291	5,826,240	(21,291) (0.4%)	114,240 2.0%
Corporate & Departmental Support Services	7,242,552	7,359,132	7,757,552	(116,580) (1.6%)	515,000 7.1%
Utilities Arrears Program	500,320	354,080	500,320	146,240 29.2%	- 0.0%
Sewer Lateral Management Program	300,000	299,796	300,000	204 0.1%	- 0.0%
Hamilton Harbour Remedial Action Plan	370,964	547,987	578,964	(177,023) (47.7%)	208,000 56.1%
Protective Plumbing Program (3P)	752,870	666,929	752,870	85,942 11.4%	- 0.0%
Financial Charges	86,020	86,020	86,020	- 0.0%	- 0.0%
	99,286,901	101,307,358	107,046,290	(2,020,458) (2.0%)	7,759,390 7.8%
Capital and Reserve Recoveries	(8,635,161)	(8,611,797)	(8,635,161)	(23,363) 0.3%	- 0.0%
<b>Sub-Total</b>	<b>90,651,740</b>	<b>92,695,561</b>	<b>98,411,129</b>	<b>(2,043,821) (2.3%)</b>	<b>7,759,390 8.6%</b>
<b>Capital and Reserve Impacts on Operating</b>					
<b>Contributions to Capital</b>					
Water Quality Initiatives	50,498,000	50,498,000	39,539,500	- 0.0%	(10,958,500) (21.7%)
Wastewater	57,237,984	57,237,984	73,784,138	- 0.0%	16,546,154 28.9%
Stormwater	17,632,679	17,632,679	11,765,000	- 0.0%	(5,867,679) (33.3%)
<b>Sub-Total Contributions to Capital</b>	<b>125,368,663</b>	<b>125,368,663</b>	<b>125,088,638</b>	<b>- 0.0%</b>	<b>(280,025) (0.2%)</b>
<b>Contributions for DC Exemptions</b>					
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	- 0.0%	- 0.0%
Wastewater	4,590,000	4,590,000	4,590,000	- 0.0%	- 0.0%
Stormwater	1,890,000	1,890,000	1,890,000	- 0.0%	- 0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>- 0.0%</b>	<b>- 0.0%</b>

## CITY OF HAMILTON

## 2022 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

## COMBINED WATER, WASTEWATER AND STORM

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL	2022 REQUESTED / 2021 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>							
<b>Capital Debt Charges</b>							
Water Quality Initiatives	9,844,773	8,266,428	11,068,076	1,578,345	16.0%	1,223,303	12.4%
Wastewater	12,534,242	10,781,146	12,881,726	1,753,096	14.0%	347,484	2.8%
Stormwater	2,490,898	2,356,948	3,584,490	133,950	5.4%	1,093,592	43.9%
DC Debt Charges Recoveries	(4,335,428)	(4,335,426)	(5,185,120)	(2)	0.0%	(849,692)	19.6%
<b>Sub-Total Debt Charges</b>	<b>20,534,485</b>	<b>17,069,096</b>	<b>22,349,172</b>	<b>3,465,389</b>	<b>16.9%</b>	<b>1,814,686</b>	<b>8.8%</b>
<b>Sub-Total Capital Financing</b>	<b>154,903,148</b>	<b>151,437,759</b>	<b>156,437,810</b>	<b>3,465,389</b>	<b>2.2%</b>	<b>1,534,661</b>	<b>1.0%</b>
<b>Reserve Transfers</b>	<b>-</b>	<b>(1,425,414)</b>	<b>3,001,973</b>	<b>1,425,414</b>	<b>0.0%</b>	<b>3,001,973</b>	<b>0.0%</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>154,903,148</b>	<b>150,012,345</b>	<b>159,439,782</b>	<b>4,890,803</b>	<b>3.2%</b>	<b>4,536,634</b>	<b>2.9%</b>
<b>TOTAL EXPENDITURES</b>	<b>245,554,888</b>	<b>242,707,906</b>	<b>257,850,912</b>	<b>2,846,982</b>	<b>1.2%</b>	<b>12,296,024</b>	<b>5.0%</b>
<b>REVENUES:</b>							
<b>Rate Revenue</b>							
Residential	107,653,756	110,053,756	113,919,774	2,400,000	2.2%	6,266,018	5.8%
Industrial/Commercial/Institutional/Multi-res	118,417,217	113,967,217	123,323,962	(4,450,000)	(3.8%)	4,906,745	4.1%
Haldimand	2,588,952	2,588,952	2,834,077	-	0.0%	245,125	9.5%
Halton	269,837	269,837	282,410	-	0.0%	12,573	4.7%
Raw Water	128,750	103,750	105,000	(25,000)	(19.4%)	(23,750)	(18.4%)
Non-Metered	880,000	880,000	825,000	-	0.0%	(55,000)	(6.3%)
Private Fire Lines	1,924,000	1,924,000	1,980,000	-	0.0%	56,000	2.9%
Hauler / 3rd Party Sales	1,400,000	1,950,000	1,820,000	550,000	39.3%	420,000	30.0%
Overstrength Agreements	3,210,510	3,012,854	3,306,825	(197,656)	(6.2%)	96,315	3.0%
Sewer Surcharge Agreements	6,224,456	5,600,130	6,511,190	(624,327)	(10.0%)	286,734	4.6%
<b>Sub-Total Utility Rates</b>	<b>242,697,478</b>	<b>240,350,496</b>	<b>254,908,239</b>	<b>(2,346,982)</b>	<b>(1.0%)</b>	<b>12,210,761</b>	<b>5.0%</b>
<b>Non-Rate Revenue</b>							
Local Improvement Recoveries	275,850	275,850	275,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	1,065,050	565,050	1,107,652	(500,000)	(46.9%)	42,602	4.0%
Investment Income	450,000	450,000	450,000	-	0.0%	-	0.0%
General Fees and Recoveries	1,066,510	1,066,510	1,109,170	-	0.0%	42,660	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>2,857,410</b>	<b>2,357,410</b>	<b>2,942,672</b>	<b>(500,000)</b>	<b>(17.5%)</b>	<b>85,262</b>	<b>3.0%</b>
<b>TOTAL REVENUES</b>	<b>245,554,888</b>	<b>242,707,906</b>	<b>257,850,912</b>	<b>(2,846,982)</b>	<b>(1.2%)</b>	<b>12,296,023</b>	<b>5.0%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>



**CITY OF HAMILTON**  
**2022 - 2025 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WATER, WASTEWATER AND STORM**

	2021	2022	2023	2024	2025	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2022 REQUESTED / 2021 RESTATED BUDGET	%	2023 PROJECTED / 2022 REQUESTED BUDGET	%	2024 PROJECTED / 2023 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>											
Divisional Administration & Support	2,464,490	2,369,122	2,463,886	2,562,442	2,664,940	(95,368)	(3.9%)	94,765	4.0%	98,555	4.0%
Woodward Upgrades	1,735,670	1,764,829	1,835,422	1,908,839	1,985,193	29,159	1.7%	70,593	4.0%	73,417	4.0%
Customer Service	325,250	329,279	342,450	356,148	370,394	4,029	1.2%	13,171	4.0%	13,698	4.0%
Outreach & Education	1,093,813	1,111,320	1,155,773	1,202,004	1,250,084	17,507	1.6%	44,453	4.0%	46,231	4.0%
Service Co-ordination	3,500,605	3,581,202	3,724,450	3,873,428	4,028,365	80,597	2.3%	143,248	4.0%	148,978	4.0%
Engineering Systems & Data Collection	1,172,372	1,153,746	1,199,896	1,247,892	1,297,808	(18,626)	(1.6%)	46,150	4.0%	47,996	4.0%
Compliance & Regulations	1,005,054	1,019,823	1,060,616	1,103,040	1,147,162	14,769	1.5%	40,793	4.0%	42,425	4.0%
Laboratory Services	3,553,884	3,743,598	3,893,342	4,049,076	4,211,039	189,714	5.3%	149,744	4.0%	155,734	4.0%
Environmental Monitoring & Enforcement	2,215,026	2,478,749	2,577,899	2,681,015	2,788,256	263,723	11.9%	99,150	4.0%	103,116	4.0%
Water Distribution & Wastewater Collection	21,894,147	24,122,428	25,087,325	26,090,818	27,134,451	2,228,282	10.2%	964,897	4.0%	1,003,493	4.0%
Plant Operations	27,373,740	30,409,180	31,625,548	32,890,570	34,206,192	3,035,440	11.1%	1,216,367	4.0%	1,265,022	4.0%
Plant Maintenance	10,815,523	11,708,771	12,177,122	12,664,207	13,170,775	893,248	8.3%	468,351	4.0%	487,085	4.0%
Capital Delivery	2,072,271	2,254,575	2,344,758	2,438,549	2,536,090	182,304	8.8%	90,183	4.0%	93,790	4.0%
Watershed Management	1,275,560	1,382,313	1,437,606	1,495,110	1,554,914	106,753	8.4%	55,293	4.0%	57,504	4.0%
Infrastructure Planning & System Design	2,632,320	2,672,939	2,779,856	2,891,050	3,006,692	40,619	1.5%	106,918	4.0%	111,194	4.0%
Wastewater Abatement Program	1,192,450	1,142,450	1,188,148	1,235,674	1,285,101	(50,000)	(4.2%)	45,698	4.0%	47,526	4.0%
Alectra Utilities Service Contract	5,712,000	5,826,240	6,059,290	6,301,661	6,553,728	114,240	2.0%	233,050	4.0%	242,372	4.0%
Corporate & Departmental Support Services	7,242,552	7,757,552	8,067,854	8,390,568	8,726,191	515,000	7.1%	310,302	4.0%	322,714	4.0%
Utilities Arrears Program	500,320	500,320	520,333	541,146	562,792	-	0.0%	20,013	4.0%	20,813	4.0%
Sewer Lateral Management Program	300,000	300,000	312,000	324,480	337,459	-	0.0%	12,000	4.0%	12,480	4.0%
Hamilton Harbour Remedial Action Plan	370,964	578,964	602,123	626,207	651,256	208,000	56.1%	23,159	4.0%	24,085	4.0%
Protective Plumbing Program (3P)	752,870	752,870	782,985	814,304	846,876	-	0.0%	30,115	4.0%	31,319	4.0%
Financial Charges	86,020	86,020	89,461	93,039	96,761	-	0.0%	3,441	4.0%	3,578	4.0%
	99,286,901	107,046,290	111,328,142	115,781,267	120,412,518	7,759,390	7.8%	4,281,852	4.0%	4,453,126	4.0%
Capital and Reserve Recoveries	(8,635,161)	(8,635,161)	(8,916,012)	(9,206,807)	(9,507,916)	-	0.0%	(280,852)	3.3%	(290,795)	3.3%
<b>Sub-Total</b>	<b>90,651,740</b>	<b>98,411,129</b>	<b>102,412,129</b>	<b>106,574,460</b>	<b>110,904,602</b>	<b>7,759,390</b>	<b>8.6%</b>	<b>4,001,000</b>	<b>4.1%</b>	<b>4,162,331</b>	<b>4.1%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>											
<b><u>Contributions to Capital</u></b>											
Water Quality Initiatives	50,498,000	39,539,500	72,200,000	84,925,500	94,721,500	(10,958,500)	(21.7%)	32,660,500	82.6%	12,725,500	17.6%
Wastewater	57,237,984	73,784,138	35,726,470	31,791,470	46,481,470	16,546,154	28.9%	(38,057,668)	(51.6%)	(3,935,000)	(11.0%)
Stormwater	17,632,679	11,765,000	19,640,000	24,345,000	14,255,000	(5,867,679)	(33.3%)	7,875,000	66.9%	4,705,000	24.0%
<b>Sub-Total Contributions to Capital</b>	<b>125,368,663</b>	<b>125,088,638</b>	<b>127,566,470</b>	<b>141,061,970</b>	<b>155,457,970</b>	<b>(280,025)</b>	<b>(0.2%)</b>	<b>2,477,832</b>	<b>2.0%</b>	<b>13,495,500</b>	<b>10.6%</b>
<b><u>Contributions for DC Exemptions</u></b>											
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%	-	0.0%
Wastewater	4,590,000	4,590,000	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%	-	0.0%
Stormwater	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b><u>Debt Charges</u></b>											
Water Quality Initiatives	9,844,773	11,068,076	16,537,103	22,672,618	29,346,565	1,223,303	12.4%	5,469,028	49.4%	6,135,514	37.1%
Wastewater	12,534,242	12,881,726	20,924,014	28,829,548	37,469,380	347,484	2.8%	8,042,288	62.4%	7,905,534	37.8%
Stormwater	2,490,898	3,584,490	4,530,697	5,128,028	5,611,572	1,093,592	43.9%	946,207	26.4%	597,331	13.2%
DC Debt Charges Recoveries	(4,335,428)	(5,185,120)	(13,797,266)	(22,250,437)	(30,740,212)	(849,692)	19.6%	(8,612,146)	166.1%	(8,453,171)	61.3%
<b>Sub-Total Debt Charges</b>	<b>20,534,485</b>	<b>22,349,172</b>	<b>28,194,548</b>	<b>34,379,757</b>	<b>41,687,306</b>	<b>1,814,686</b>	<b>8.8%</b>	<b>5,845,376</b>	<b>26.2%</b>	<b>6,185,209</b>	<b>21.9%</b>
<b>Sub-Total Capital Financing</b>	<b>154,903,148</b>	<b>156,437,810</b>	<b>164,761,018</b>	<b>184,441,727</b>	<b>206,145,276</b>	<b>1,534,661</b>	<b>1.0%</b>	<b>8,323,208</b>	<b>5.3%</b>	<b>19,680,709</b>	<b>11.9%</b>
<b>Reserve Transfers</b>	<b>-</b>	<b>3,001,973</b>	<b>9,034,356</b>	<b>5,164,576</b>	<b>318,142</b>	<b>3,001,973</b>	<b>0.0%</b>	<b>6,032,384</b>	<b>200.9%</b>	<b>(3,869,780)</b>	<b>(42.8%)</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>154,903,148</b>	<b>159,439,782</b>	<b>173,795,374</b>	<b>189,606,303</b>	<b>206,463,418</b>	<b>4,536,634</b>	<b>2.9%</b>	<b>14,355,592</b>	<b>9.0%</b>	<b>15,810,929</b>	<b>9.1%</b>
<b>TOTAL EXPENDITURES</b>	<b>245,554,888</b>	<b>257,850,912</b>	<b>276,207,504</b>	<b>296,180,764</b>	<b>317,368,019</b>	<b>12,296,024</b>	<b>5.0%</b>	<b>18,356,592</b>	<b>7.1%</b>	<b>19,973,260</b>	<b>7.2%</b>

**CITY OF HAMILTON**  
**2022 - 2025 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WATER, WASTEWATER AND STORM**

	2021 RESTATED BUDGET	2022 REQUESTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	CHANGE 2022 REQUESTED / 2021 RESTATED BUDGET	CHANGE 2023 PROJECTED / 2022 REQUESTED BUDGET	CHANGE 2024 PROJECTED / 2023 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	107,653,756	113,919,774	122,675,631	132,010,795	141,908,712	6,266,018	5.8%	8,755,857	7.7%	9,335,163	7.6%
Industrial/Commercial/Institutional/Multi-res	118,417,217	123,323,962	131,917,723	141,473,007	151,614,571	4,906,745	4.1%	8,593,761	7.0%	9,555,284	7.2%
Haldimand	2,588,952	2,834,077	3,140,316	3,497,108	3,879,469	245,125	9.5%	306,238	10.8%	356,793	11.4%
Halton	269,837	282,410	310,553	343,476	379,268	12,573	4.7%	28,142	10.0%	32,923	10.6%
Raw Water	128,750	105,000	109,200	113,568	118,111	(23,750)	(18.4%)	4,200	4.0%	4,368	4.0%
Non-Metered	880,000	825,000	860,000	890,000	930,000	(55,000)	(6.3%)	35,000	4.2%	30,000	3.5%
Private Fire Lines	1,924,000	1,980,000	2,059,200	2,141,568	2,227,231	56,000	2.9%	79,200	4.0%	82,368	4.0%
Hauler / 3rd Party Sales	1,400,000	1,820,000	1,892,800	1,968,512	2,047,252	420,000	30.0%	72,800	4.0%	75,712	4.0%
Overstrength Agreements	3,210,510	3,306,825	3,439,098	3,576,662	3,719,729	96,315	3.0%	132,273	4.0%	137,564	4.0%
Sewer Surcharge Agreements	6,224,456	6,511,190	6,771,637	7,042,503	7,324,203	286,734	4.6%	260,448	4.0%	270,865	4.0%
<b>Sub-Total Utility Rates</b>	<b>242,697,478</b>	<b>254,908,239</b>	<b>273,176,158</b>	<b>293,057,199</b>	<b>314,148,546</b>	<b>12,210,761</b>	<b>5.0%</b>	<b>18,267,919</b>	<b>7.2%</b>	<b>19,881,040</b>	<b>7.3%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	275,850	275,850	275,850	275,850	275,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	1,065,050	1,107,652	1,151,958	1,198,036	1,245,958	42,602	4.0%	44,306	4.0%	46,078	4.0%
Investment Income	450,000	450,000	450,000	450,000	450,000	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	1,066,510	1,109,170	1,153,537	1,199,679	1,247,666	42,660	4.0%	44,367	4.0%	46,141	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>2,857,410</b>	<b>2,942,672</b>	<b>3,031,345</b>	<b>3,123,565</b>	<b>3,219,474</b>	<b>85,262</b>	<b>3.0%</b>	<b>88,673</b>	<b>3.0%</b>	<b>92,220</b>	<b>3.0%</b>
<b>TOTAL REVENUES</b>	<b>245,554,888</b>	<b>257,850,912</b>	<b>276,207,504</b>	<b>296,180,764</b>	<b>317,368,019</b>	<b>12,296,023</b>	<b>5.0%</b>	<b>18,356,592</b>	<b>7.1%</b>	<b>19,973,260</b>	<b>7.2%</b>
<b>NET EXPENDITURES</b>	<b>(0)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>0.0%</b>	<b>(0)</b>	<b>0.0%</b>	<b>(0)</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2022-2031 HAMILTON WATER, WASTEWATER & STORM OPERATING BUDGET**  
**COMBINED WATER, WASTEWATER AND STORM**  
**(\$ 000'S)**

	2021 Restated	2022 Requested	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast
<b>OPERATING EXPENDITURES</b>											
OPERATING COSTS	90,652	98,411	102,412	106,574	110,905	114,283	117,776	121,387	125,121	128,981	132,973
<b>TOTAL OPERATING COSTS</b>	<b>90,652</b>	<b>98,411</b>	<b>102,412</b>	<b>106,574</b>	<b>110,905</b>	<b>114,283</b>	<b>117,776</b>	<b>121,387</b>	<b>125,121</b>	<b>128,981</b>	<b>132,973</b>
<b>CAPITAL &amp; RESERVE IMPACTS ON OPERATING</b>											
<b>Contributions to Capital</b>											
Water	50,498	39,540	72,200	84,926	94,722	87,332	70,004	74,393	77,821	75,734	71,991
Wastewater	57,238	73,784	35,726	31,791	46,481	72,871	78,996	82,656	89,186	90,106	100,696
Stormwater	17,633	11,765	19,640	24,345	14,255	10,265	32,055	34,265	33,855	32,215	33,355
<b>Sub-total Contributions to Capital</b>	<b>125,369</b>	<b>125,089</b>	<b>127,566</b>	<b>141,062</b>	<b>155,458</b>	<b>170,468</b>	<b>181,055</b>	<b>191,314</b>	<b>200,862</b>	<b>198,055</b>	<b>206,042</b>
<b>Contributions for DC Exemptions</b>											
Water	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Wastewater	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590
Stormwater	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
<b>Sub-total Contributions to Capital</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>
<b>Debt Charges</b>											
Water	9,845	11,068	16,537	22,673	29,347	33,702	34,795	35,057	35,325	33,856	33,779
Wastewater	12,534	12,882	20,924	28,830	37,469	44,805	50,966	56,025	59,603	58,873	58,812
Stormwater	2,491	3,584	4,531	5,128	5,612	5,826	6,129	6,717	7,176	7,317	7,026
DC Debt Charges Recoveries	(4,335)	(5,185)	(13,797)	(22,250)	(30,740)	(39,309)	(47,871)	(55,256)	(58,669)	(58,695)	(58,720)
<b>Sub-total Debt Charges</b>	<b>20,534</b>	<b>22,349</b>	<b>28,195</b>	<b>34,380</b>	<b>41,687</b>	<b>45,024</b>	<b>44,019</b>	<b>42,543</b>	<b>43,435</b>	<b>41,351</b>	<b>40,898</b>
<b>Reserve Transfers</b>	<b>-</b>	<b>3,002</b>	<b>9,034</b>	<b>5,165</b>	<b>318</b>	<b>1,530</b>	<b>2,822</b>	<b>4,171</b>	<b>5,625</b>	<b>22,038</b>	<b>26,078</b>
<b>Sub-Total Capital &amp; Reserve Impacts on Operating</b>	<b>154,903</b>	<b>159,440</b>	<b>173,795</b>	<b>189,606</b>	<b>206,463</b>	<b>226,022</b>	<b>236,897</b>	<b>247,028</b>	<b>258,922</b>	<b>270,445</b>	<b>282,018</b>
<b>TOTAL EXPENDITURES</b>	<b>245,555</b>	<b>257,851</b>	<b>276,208</b>	<b>296,181</b>	<b>317,368</b>	<b>340,306</b>	<b>354,674</b>	<b>368,416</b>	<b>384,043</b>	<b>399,426</b>	<b>414,991</b>
<b>REVENUES</b>											
Residential	107,654	113,920	122,676	132,011	141,909	152,670	160,123	167,140	175,691	184,277	193,007
Industrial/Commercial/Institutional/Multi-res	118,417	123,324	131,918	141,473	151,615	162,636	168,666	174,493	180,646	186,505	192,365
Haldimand	2,589	2,834	3,140	3,497	3,879	4,301	4,454	4,595	4,737	4,866	4,995
Halton	270	282	311	343	379	420	434	448	463	476	490
Raw Water	129	105	109	114	118	122	125	129	133	137	141
Non-Metered	880	825	860	890	930	970	1,010	1,050	1,090	1,130	1,180
Private Fire Lines	1,924	1,980	2,059	2,142	2,227	2,294	2,363	2,434	2,507	2,582	2,659
Hauler / 3rd Party Sales	1,400	1,820	1,893	1,969	2,047	2,109	2,172	2,238	2,306	2,376	2,448
Overstrength Agreements	3,211	3,307	3,439	3,577	3,720	3,869	4,023	4,184	4,352	4,526	4,707
Sewer Surcharge Agreements	6,224	6,511	6,772	7,043	7,324	7,617	7,922	8,239	8,568	8,911	9,267
Non-Rate Revenue	2,857	2,943	3,031	3,124	3,219	3,299	3,381	3,465	3,552	3,641	3,732
<b>TOTAL REVENUES</b>	<b>245,555</b>	<b>257,851</b>	<b>276,208</b>	<b>296,181</b>	<b>317,368</b>	<b>340,306</b>	<b>354,674</b>	<b>368,416</b>	<b>384,043</b>	<b>399,426</b>	<b>414,991</b>
<b>NET EXPENDITURES</b>	<b>(0)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Rate Increase</b>	<b>4.28%</b>	<b>4.98%</b>	<b>6.49%</b>	<b>6.45%</b>	<b>6.36%</b>	<b>6.46%</b>	<b>3.76%</b>	<b>3.29%</b>	<b>3.98%</b>	<b>3.76%</b>	<b>3.62%</b>
<b>RESIDENTIAL BILL (200m<sup>3</sup> p.a.)</b>	<b>\$ 784.80</b>	<b>\$ 823.85</b>	<b>\$ 877.30</b>	<b>\$ 933.90</b>	<b>\$ 993.30</b>	<b>\$ 1,057.50</b>	<b>\$ 1,097.30</b>	<b>\$ 1,133.45</b>	<b>\$ 1,178.55</b>	<b>\$ 1,222.85</b>	<b>\$ 1,267.15</b>

**CITY OF HAMILTON**  
**2022 HAMILTON WATER OPERATING BUDGET**  
**WATER**

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL	2022 REQUESTED / 2021 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
Divisional Administration & Support	1,109,021	1,175,738	1,066,105	(66,717)	(6.0%)	(42,916)	(3.9%)
Customer Service	162,625	123,967	164,639	38,658	23.8%	2,014	1.2%
Outreach & Education	546,906	379,265	555,660	167,642	30.7%	8,754	1.6%
Service Co-ordination	1,785,309	1,642,785	1,826,413	142,524	8.0%	41,104	2.3%
Engineering Systems & Data Collection	586,186	285,554	576,873	300,633	51.3%	(9,313)	(1.6%)
Compliance & Regulations	502,527	479,727	509,911	22,800	4.5%	7,384	1.5%
Laboratory Services	1,125,160	1,173,015	1,185,223	(47,855)	(4.3%)	60,064	5.3%
Water Distribution & Wastewater Collection	13,308,869	14,510,647	14,663,382	(1,201,778)	(9.0%)	1,354,513	10.2%
Plant Operations	13,294,402	14,089,228	14,768,602	(794,826)	(6.0%)	1,474,200	11.1%
Plant Maintenance	5,407,762	5,364,801	5,854,386	42,961	0.8%	446,624	8.3%
Capital Delivery	932,522	965,130	1,014,559	(32,608)	(3.5%)	82,037	8.8%
Infrastructure Planning & System Design	1,184,544	1,165,371	1,202,822	19,173	1.6%	18,278	1.5%
Alectra Utilities Service Contract	2,856,000	2,866,646	2,913,120	(10,646)	(0.4%)	57,120	2.0%
Corporate & Departmental Support Services	3,259,148	3,311,609	3,490,898	(52,461)	(1.6%)	231,750	7.1%
Utilities Arrears Program	250,160	177,040	250,160	73,120	29.2%	-	0.0%
	46,311,140	47,710,521	50,042,754	(1,399,381)	(3.0%)	3,731,614	8.1%
Capital and Reserve Recoveries	(3,227,744)	(3,219,011)	(3,227,744)	(8,733)	0.3%	-	0.0%
<b>Sub-Total</b>	<b>\$ 43,083,397</b>	<b>\$ 44,491,511</b>	<b>\$ 46,815,011</b>	<b>\$ (1,408,114)</b>	<b>(3.3%)</b>	<b>\$ 3,731,614</b>	<b>8.7%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Water Quality Initiatives	50,498,000	50,498,000	39,539,500	-	0.0%	(10,958,500)	(21.7%)
Wastewater	-	-	-	-	-	-	-
Stormwater	-	-	-	-	-	-	-
<b>Sub-Total Contributions to Capital</b>	<b>50,498,000</b>	<b>50,498,000</b>	<b>39,539,500</b>	<b>-</b>	<b>0.0%</b>	<b>(10,958,500)</b>	<b>(21.7%)</b>
<b><u>Contributions for DC Exemptions</u></b>							
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%
Wastewater	-	-	-	-	-	-	-
Stormwater	-	-	-	-	-	-	-
<b>Sub-Total Contributions for DC Exemptions</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2022 HAMILTON WATER OPERATING BUDGET**  
**WATER**

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL	2022 REQUESTED / 2021 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>Debt Charges</u></b>							
Water Quality Initiatives	9,844,773	8,266,428	11,068,076	1,578,345	16.0%	1,223,303	12.4%
Wastewater	-	-	-	-	-	-	-
Stormwater	-	-	-	-	-	-	-
DC Debt Charges Recoveries	(1,110,541)	(1,110,541)	(1,419,924)	-	0.0%	(309,383)	27.9%
<b>Sub-Total Debt Charges</b>	<b>8,734,232</b>	<b>7,155,887</b>	<b>9,648,152</b>	<b>1,578,345</b>	<b>18.1%</b>	<b>913,920</b>	<b>10.5%</b>
<b>Sub-Total Capital Financing</b>	<b>61,752,232</b>	<b>60,173,887</b>	<b>51,707,652</b>	<b>1,578,345</b>	<b>2.6%</b>	<b>(10,044,580)</b>	<b>(16.3%)</b>
<b>Reserve Transfers</b>	<b>13,473,750</b>	<b>12,466,124</b>	<b>26,221,925</b>	<b>1,007,626</b>	<b>7.5%</b>	<b>12,748,175</b>	<b>94.6%</b>
<b>Sub-Total Cap/Reserve Impacts on Operating</b>	<b>75,225,982</b>	<b>72,640,011</b>	<b>77,929,577</b>	<b>2,585,971</b>	<b>3.4%</b>	<b>2,703,595</b>	<b>3.6%</b>
<b>TOTAL EXPENDITURES</b>	<b>118,309,378</b>	<b>117,131,521</b>	<b>124,744,587</b>	<b>1,177,857</b>	<b>1.0%</b>	<b>6,435,209</b>	<b>5.4%</b>
<b><u>REVENUES:</u></b>							
<b><u>Rate Revenue</u></b>							
Residential	52,204,561	53,404,561	55,608,691	1,200,000	2.3%	3,404,130	6.5%
Industrial/Commercial/Institutional/Multi-res	57,888,030	55,638,030	60,378,450	(2,250,000)	(3.9%)	2,490,420	4.3%
Haldimand	2,588,952	2,588,952	2,834,077	-	0.0%	245,125	9.5%
Halton	269,837	269,837	282,410	-	0.0%	12,573	4.7%
Raw Water	128,750	103,750	105,000	(25,000)	(19.4%)	(23,750)	(18.4%)
Non-Metered	440,000	440,000	412,500	-	0.0%	(27,500)	(6.3%)
Private Fire Lines	1,924,000	1,924,000	1,980,000	-	0.0%	56,000	2.9%
Hauler / 3rd Party Sales	700,000	997,143	910,000	297,143	42.4%	210,000	30.0%
<b>Sub-Total Utility Rates</b>	<b>116,144,130</b>	<b>115,366,273</b>	<b>122,511,129</b>	<b>(777,857)</b>	<b>(0.7%)</b>	<b>6,366,999</b>	<b>5.5%</b>
<b><u>Non-Rate Revenue</u></b>							
Local Improvement Recoveries	10,000	10,000	10,000	-	0.0%	-	0.0%
Permits / Leases / Agreements	852,040	452,040	886,122	(400,000)	(46.9%)	34,082	4.0%
Investment Income	450,000	450,000	450,000	-	0.0%	-	0.0%
General Fees and Recoveries	853,208	853,208	887,336	-	0.0%	34,128	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>2,165,248</b>	<b>1,765,248</b>	<b>2,233,458</b>	<b>(400,000)</b>	<b>(18.5%)</b>	<b>68,210</b>	<b>3.2%</b>
<b>TOTAL REVENUES</b>	<b>118,309,378</b>	<b>117,131,521</b>	<b>124,744,587</b>	<b>(1,177,857)</b>	<b>(1.0%)</b>	<b>6,435,209</b>	<b>5.4%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2022 - 2025 HAMILTON WATER OPERATING BUDGET**  
**WATER**

	2021	2022	2023	2024	2025	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2022 REQUESTED / 2021 RESTATED BUDGET		2023 PROJECTED / 2022 REQUESTED BUDGET		2024 PROJECTED / 2023 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>											
Divisional Administration & Support	1,109,021	1,066,105	1,108,749	1,153,099	1,199,223	(42,916)	(3.9%)	42,644	4.0%	44,350	4.0%
Customer Service	162,625	164,639	171,225	178,074	185,197	2,014	1.2%	6,586	4.0%	6,849	4.0%
Outreach & Education	546,906	555,660	577,886	601,002	625,042	8,754	1.6%	22,226	4.0%	23,115	4.0%
Service Co-ordination	1,785,309	1,826,413	1,899,470	1,975,448	2,054,466	41,104	2.3%	73,057	4.0%	75,979	4.0%
Engineering Systems & Data Collection	586,186	576,873	599,948	623,946	648,904	(9,313)	(1.6%)	23,075	4.0%	23,998	4.0%
Compliance & Regulations	502,527	509,911	530,308	551,520	573,581	7,384	1.5%	20,396	4.0%	21,212	4.0%
Laboratory Services	1,125,160	1,185,223	1,232,632	1,281,937	1,333,215	60,064	5.3%	47,409	4.0%	49,305	4.0%
Water Distribution & Wastewater Collection	13,308,869	14,663,382	15,249,917	15,859,914	16,494,311	1,354,513	10.2%	586,535	4.0%	609,997	4.0%
Plant Operations	13,294,402	14,768,602	15,359,346	15,973,720	16,612,669	1,474,200	11.1%	590,744	4.0%	614,374	4.0%
Plant Maintenance	5,407,762	5,854,386	6,088,561	6,332,103	6,585,388	446,624	8.3%	234,175	4.0%	243,542	4.0%
Capital Delivery	932,522	1,014,559	1,055,141	1,097,347	1,141,241	82,037	8.8%	40,582	4.0%	42,206	4.0%
Infrastructure Planning & System Design	1,184,544	1,202,822	1,250,935	1,300,973	1,353,012	18,278	1.5%	48,113	4.0%	50,037	4.0%
Alectra Utilities Service Contract	2,856,000	2,913,120	3,029,645	3,150,831	3,276,864	57,120	2.0%	116,525	4.0%	121,186	4.0%
Corporate & Departmental Support Services	3,259,148	3,490,898	3,630,534	3,775,756	3,926,786	231,750	7.1%	139,636	4.0%	145,221	4.0%
Utilities Arrears Program	250,160	250,160	260,166	270,573	281,396	-	0.0%	10,006	4.0%	10,407	4.0%
	<b>46,311,140</b>	<b>50,042,754</b>	<b>52,044,464</b>	<b>54,126,243</b>	<b>56,291,293</b>	<b>3,731,614</b>	<b>8.1%</b>	<b>2,001,710</b>	<b>4.0%</b>	<b>2,081,779</b>	<b>4.0%</b>
Capital and Reserve Recoveries	(3,227,744)	(3,227,744)	(3,292,299)	(3,358,145)	(3,425,307)	-	0.0%	(64,555)	2.0%	(65,846)	2.0%
<b>Sub-Total</b>	<b>43,083,397</b>	<b>46,815,011</b>	<b>48,752,166</b>	<b>50,768,098</b>	<b>52,865,985</b>	<b>3,731,614</b>	<b>8.7%</b>	<b>1,937,155</b>	<b>4.1%</b>	<b>2,015,933</b>	<b>4.1%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>											
<b><u>Contributions to Capital</u></b>											
Water Quality Initiatives	50,498,000	39,539,500	72,200,000	84,925,500	94,721,500	(10,958,500)	(21.7%)	32,660,500	82.6%	12,725,500	17.6%
<b>Sub-Total Contributions to Capital</b>	<b>50,498,000</b>	<b>39,539,500</b>	<b>72,200,000</b>	<b>84,925,500</b>	<b>94,721,500</b>	<b>(10,958,500)</b>	<b>(21.7%)</b>	<b>32,660,500</b>	<b>82.6%</b>	<b>12,725,500</b>	<b>17.6%</b>
<b><u>Contributions for DC Exemptions</u></b>											
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b><u>Capital Debt Charges</u></b>											
Water Quality Initiatives	9,844,773	11,068,076	16,537,103	22,672,618	29,346,565	1,223,303	12.4%	5,469,028	49.4%	6,135,514	37.1%
DC Debt Charges Recoveries	(1,110,541)	(1,419,924)	(4,304,222)	(7,737,780)	(11,650,971)	(309,383)	27.9%	(2,884,298)	203.1%	(3,433,558)	79.8%
<b>Sub-Total Debt Charges</b>	<b>8,734,232</b>	<b>9,648,152</b>	<b>12,232,881</b>	<b>14,934,837</b>	<b>17,695,594</b>	<b>913,920</b>	<b>10.5%</b>	<b>2,584,730</b>	<b>26.8%</b>	<b>2,701,956</b>	<b>22.1%</b>
<b>Sub-Total Capital Financing</b>	<b>61,752,232</b>	<b>51,707,652</b>	<b>86,952,881</b>	<b>102,380,337</b>	<b>114,937,094</b>	<b>(10,044,580)</b>	<b>(16.3%)</b>	<b>35,245,230</b>	<b>68.2%</b>	<b>15,427,456</b>	<b>17.7%</b>
<b>Reserve Transfers</b>	<b>13,473,750</b>	<b>26,221,925</b>	<b>835,851</b>	<b>(3,100,939)</b>	<b>(3,116,879)</b>	<b>12,748,175</b>	<b>94.6%</b>	<b>(25,386,074)</b>	<b>(96.8%)</b>	<b>(3,936,789)</b>	<b>(471.0%)</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>75,225,982</b>	<b>77,929,577</b>	<b>87,788,732</b>	<b>99,279,399</b>	<b>111,820,215</b>	<b>2,703,595</b>	<b>3.6%</b>	<b>9,859,155</b>	<b>12.7%</b>	<b>11,490,667</b>	<b>13.1%</b>
<b>TOTAL EXPENDITURES</b>	<b>118,309,378</b>	<b>124,744,587</b>	<b>136,540,898</b>	<b>150,047,497</b>	<b>164,686,200</b>	<b>6,435,209</b>	<b>5.4%</b>	<b>11,796,311</b>	<b>9.5%</b>	<b>13,506,599</b>	<b>9.9%</b>

**CITY OF HAMILTON**  
**2022 - 2025 HAMILTON WATER OPERATING BUDGET**  
**WATER**

	2021	2022	2023	2024	2025	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2022 REQUESTED / 2021 RESTATED BUDGET		2023 PROJECTED / 2022 REQUESTED BUDGET		2024 PROJECTED / 2023 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	52,204,561	55,608,691	60,878,580	66,918,871	73,463,614	3,404,130	6.5%	5,269,889	9.5%	6,040,291	9.9%
Industrial/Commercial/Institutional/Multi-res	57,888,030	60,378,450	66,362,253	73,225,477	80,674,982	2,490,420	4.3%	5,983,803	9.9%	6,863,224	10.3%
Haldimand	2,588,952	2,834,077	3,140,316	3,497,108	3,879,469	245,125	9.5%	306,238	10.8%	356,793	11.4%
Halton	269,837	282,410	310,553	343,476	379,268	12,573	4.7%	28,142	10.0%	32,923	10.6%
Raw Water	128,750	105,000	109,200	113,568	118,111	(23,750)	(18.4%)	4,200	4.0%	4,368	4.0%
Non-Metered	440,000	412,500	430,000	445,000	465,000	(27,500)	(6.3%)	17,500	4.2%	15,000	3.5%
Private Fire Lines	1,924,000	1,980,000	2,059,200	2,141,568	2,227,231	56,000	2.9%	79,200	4.0%	82,368	4.0%
Hauler / 3rd Party Sales	700,000	910,000	946,400	984,256	1,023,626	210,000	30.0%	36,400	4.0%	37,856	4.0%
<b>Sub-Total Utility Rates</b>	<b>116,144,130</b>	<b>122,511,129</b>	<b>134,236,502</b>	<b>147,669,325</b>	<b>162,231,301</b>	<b>6,366,999</b>	<b>5.5%</b>	<b>11,725,372</b>	<b>9.6%</b>	<b>13,432,823</b>	<b>10.0%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	10,000	10,000	10,000	10,000	10,000	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	852,040	886,122	921,566	958,429	996,766	34,082	4.0%	35,445	4.0%	36,863	4.0%
Investment Income	450,000	450,000	450,000	450,000	450,000	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	853,208	887,336	922,830	959,743	998,133	34,128	4.0%	35,493	4.0%	36,913	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>2,165,248</b>	<b>2,233,458</b>	<b>2,304,396</b>	<b>2,378,172</b>	<b>2,454,899</b>	<b>68,210</b>	<b>3.2%</b>	<b>70,938</b>	<b>3.2%</b>	<b>73,776</b>	<b>3.2%</b>
<b>TOTAL REVENUES</b>	<b>118,309,378</b>	<b>124,744,587</b>	<b>136,540,898</b>	<b>150,047,497</b>	<b>164,686,200</b>	<b>6,435,209</b>	<b>5.4%</b>	<b>11,796,311</b>	<b>9.5%</b>	<b>13,506,599</b>	<b>9.9%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>



**CITY OF HAMILTON**  
**2022-2031 HAMILTON WATER OPERATING BUDGET**  
**WATER**  
**(000s)**

	2021 Restated	2022 Requested	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast
<b>OPERATING EXPENDITURES</b>											
OPERATING COSTS	43,083	46,815	48,752	50,768	52,866	53,923	55,002	56,102	57,224	58,368	59,536
<b>TOTAL OPERATING COSTS</b>	<b>43,083</b>	<b>46,815</b>	<b>48,752</b>	<b>50,768</b>	<b>52,866</b>	<b>53,923</b>	<b>55,002</b>	<b>56,102</b>	<b>57,224</b>	<b>58,368</b>	<b>59,536</b>
<b>CAPITAL &amp; RESERVE IMPACTS ON OPERATING</b>											
<b>Contributions to Capital</b>											
Water	50,498	39,540	72,200	84,926	94,722	87,332	70,004	74,393	77,821	75,734	71,991
<b>Sub-total Contributions to Capital</b>	<b>50,498</b>	<b>39,540</b>	<b>72,200</b>	<b>84,926</b>	<b>94,722</b>	<b>87,332</b>	<b>70,004</b>	<b>74,393</b>	<b>77,821</b>	<b>75,734</b>	<b>71,991</b>
<b>Contributions for DC Exemptions</b>											
Water	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
<b>Sub-total Contributions to Capital</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>
<b>Debt Charges</b>											
Water	9,845	11,068	16,537	22,673	29,347	33,702	34,795	35,057	35,325	33,856	33,779
DC Debt Charges Recoveries	(1,111)	(1,420)	(4,304)	(7,738)	(11,651)	(14,921)	(16,946)	(17,882)	(18,056)	(18,056)	(18,055)
<b>Sub-total Debt Charges</b>	<b>8,734</b>	<b>9,648</b>	<b>12,233</b>	<b>14,935</b>	<b>17,696</b>	<b>18,781</b>	<b>17,849</b>	<b>17,175</b>	<b>17,268</b>	<b>15,801</b>	<b>15,725</b>
<b>Reserve Transfers</b>	<b>13,474</b>	<b>26,222</b>	<b>836</b>	<b>(3,101)</b>	<b>(3,116.879)</b>	<b>18,431</b>	<b>42,691</b>	<b>45,194</b>	<b>48,532</b>	<b>58,589</b>	<b>68,963</b>
<b>Sub-Total Capital &amp; Reserve Impacts on Operating</b>	<b>75,226</b>	<b>77,930</b>	<b>87,789</b>	<b>99,279</b>	<b>111,820</b>	<b>127,064</b>	<b>133,064</b>	<b>139,282</b>	<b>146,141</b>	<b>152,644</b>	<b>159,199</b>
<b>TOTAL EXPENDITURES</b>	<b>118,309</b>	<b>124,745</b>	<b>136,541</b>	<b>150,047</b>	<b>164,686</b>	<b>180,987</b>	<b>188,066</b>	<b>195,384</b>	<b>203,365</b>	<b>211,012</b>	<b>218,734</b>
<b>REVENUES</b>											
Residential	52,205	55,609	60,879	66,919	73,464	80,814	84,510	88,452	92,849	97,211	101,644
Industrial/Commercial/Institutional/Multi-res	57,888	60,378	66,362	73,225	80,675	89,004	92,056	95,109	98,365	101,335	104,298
Haldimand	2,589	2,834	3,140	3,497	3,879	4,301	4,454	4,595	4,737	4,866	4,995
Halton	270	282	311	343	379	420	434	448	463	476	490
Raw Water	129	105	109	114	118	122	125	129	133	137	141
Non-Metered	440	413	430	445	465	485	505	525	545	565	590
Private Fire Lines	1,924	1,980	2,059	2,142	2,227	2,294	2,363	2,434	2,507	2,582	2,659
Hauler / 3rd Party Sales	700	910	946	984	1,024	1,044	1,065	1,086	1,108	1,130	1,153
Non-Rate Revenue	2,165	2,233	2,304	2,378	2,455	2,504	2,554	2,605	2,657	2,710	2,765
<b>TOTAL REVENUES</b>	<b>118,309</b>	<b>124,745</b>	<b>136,541</b>	<b>150,047</b>	<b>164,686</b>	<b>180,987</b>	<b>188,066</b>	<b>195,384</b>	<b>203,365</b>	<b>211,012</b>	<b>218,734</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Rate Increase</b>	<b>3.3%</b>	<b>5.7%</b>	<b>8.4%</b>	<b>8.8%</b>	<b>8.7%</b>	<b>9.0%</b>	<b>3.5%</b>	<b>3.6%</b>	<b>3.9%</b>	<b>3.6%</b>	<b>3.5%</b>
<b>RESIDENTIAL BILL (200m<sup>3</sup> p.a.)</b>	<b>\$ 376.70</b>	<b>\$ 398.05</b>	<b>\$ 431.35</b>	<b>\$ 469.45</b>	<b>\$ 510.35</b>	<b>\$ 556.05</b>	<b>\$ 575.35</b>	<b>\$ 595.85</b>	<b>\$ 618.80</b>	<b>\$ 640.95</b>	<b>\$ 663.10</b>

**CITY OF HAMILTON**  
**2022 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WASTEWATER AND STORM**

	2021 RESTATED BUDGET	2021 PROJECTED ACTUAL	2022 REQUESTED BUDGET	CHANGE		CHANGE	
	\$	\$	\$	\$	%	\$	%
				2021 PROJECTED ACTUAL / 2021 RESTATED BUDGET		2022 REQUESTED / 2021 RESTATED BUDGET	
<b><u>OPERATING EXPENDITURES:</u></b>							
Divisional Administration & Support	1,355,470	1,437,013	1,303,017	(81,543)	(6.0%)	(52,453)	(3.9%)
Woodward Upgrades	1,735,670	1,835,177	1,764,829	(99,507)	(5.7%)	29,159	1.7%
Customer Service	162,625	123,967	164,639	38,658	23.8%	2,014	1.2%
Outreach & Education	546,906	379,265	555,660	167,642	30.7%	8,754	1.6%
Service Co-ordination	1,715,297	1,578,362	1,754,789	136,935	8.0%	39,492	2.3%
Engineering Systems & Data Collection	586,186	285,554	576,873	300,633	51.3%	(9,313)	(1.6%)
Compliance & Regulations	502,527	479,727	509,911	22,800	4.5%	7,384	1.5%
Laboratory Services	2,428,724	2,532,022	2,558,375	(103,298)	(4.3%)	129,651	5.3%
Environmental Monitoring & Enforcement	2,215,026	2,099,337	2,478,749	115,689	5.2%	263,723	11.9%
Water Distribution & Wastewater Collection	8,585,278	9,360,520	9,459,046	(775,242)	(9.0%)	873,769	10.2%
Plant Operations	14,079,338	14,921,092	15,640,578	(841,754)	(6.0%)	1,561,240	11.1%
Plant Maintenance	5,407,762	5,364,801	5,854,386	42,961	0.8%	446,624	8.3%
Capital Delivery	1,139,749	1,179,603	1,240,016	(39,854)	(3.5%)	100,267	8.8%
Watershed Management	1,275,560	1,016,538	1,382,313	259,022	20.3%	106,753	8.4%
Infrastructure Planning & System Design	1,447,776	1,424,343	1,470,116	23,433	1.6%	22,340	1.5%
Wastewater Abatement Program	1,192,450	887,579	1,142,450	304,872	25.6%	(50,000)	(4.2%)
Alectra Utilities Service Contract	2,856,000	2,866,646	2,913,120	(10,646)	(0.4%)	57,120	2.0%
Corporate & Departmental Support Services	3,983,403	4,047,522	4,266,653	(64,119)	(1.6%)	283,250	7.1%
Utilities Arrears Program	250,160	177,040	250,160	73,120	29.2%	-	0.0%
Sewer Lateral Management Program	300,000	299,796	300,000	204	0.1%	-	0.0%
Hamilton Harbour Remedial Action Plan	370,964	547,987	578,964	(177,023)	(47.7%)	208,000	56.1%
Protective Plumbing Program (3P)	752,870	666,929	752,870	85,942	11.4%	-	0.0%
Financial Charges	86,020	86,020	86,020	-	0.0%	-	0.0%
	52,975,760	53,596,837	57,003,536	(621,077)	(1.2%)	4,027,776	7.6%
Capital and Reserve Recoveries	(5,407,417)	(5,392,787)	(5,407,417)	(14,630)	0.3%	-	0.0%
<b>Sub-Total</b>	<b>47,568,343</b>	<b>48,204,050</b>	<b>51,596,119</b>	<b>(635,707)</b>	<b>(1.3%)</b>	<b>4,027,776</b>	<b>8.5%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Water Quality Initiatives	-	-	-	-	0.0%	-	0.0%
Wastewater	57,237,984	57,237,984	73,784,138	-	0.0%	16,546,154	28.9%
Stormwater	17,632,679	17,632,679	11,765,000	-	0.0%	(5,867,679)	(33.3%)
<b>Sub-Total Contributions to Capital</b>	<b>74,870,663</b>	<b>74,870,663</b>	<b>85,549,138</b>	<b>-</b>	<b>0.0%</b>	<b>10,678,475</b>	<b>14.3%</b>
<b><u>Contributions for DC Exemptions</u></b>							
Water Quality Initiatives	-	-	-	-	0.0%	-	0.0%
Wastewater	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%
Stormwater	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2022 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WASTEWATER AND STORM**

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL	2022 REQUESTED / 2021 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>Debt Charges</u></b>							
Water Quality Initiatives	-	-	-	-	0.0%	-	0.0%
Wastewater	12,534,242	10,781,146	12,881,726	1,753,096	14.0%	347,484	2.8%
Stormwater	2,490,898	2,356,948	3,584,490	133,950	5.4%	1,093,592	43.9%
DC Debt Charges Recoveries	(3,224,887)	(3,224,885)	(3,765,196)	(2)	0.0%	(540,309)	16.8%
<b>Sub-Total Debt Charges</b>	<b>11,800,254</b>	<b>9,913,210</b>	<b>12,701,020</b>	<b>1,887,044</b>	<b>16.0%</b>	<b>900,766</b>	<b>7.6%</b>
<b>Sub-Total Capital Financing</b>	<b>93,150,917</b>	<b>91,263,873</b>	<b>104,730,158</b>	<b>1,887,044</b>	<b>2.0%</b>	<b>11,579,241</b>	<b>12.4%</b>
<b>Reserve Transfers</b>	<b>(13,473,749)</b>	<b>(13,891,538)</b>	<b>(23,219,952)</b>	<b>417,789</b>	<b>(3.1%)</b>	<b>(9,746,203)</b>	<b>72.3%</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>79,677,167</b>	<b>77,372,334</b>	<b>81,510,206</b>	<b>2,304,833</b>	<b>2.9%</b>	<b>1,833,039</b>	<b>2.3%</b>
<b>TOTAL EXPENDITURES</b>	<b>127,245,510</b>	<b>125,576,385</b>	<b>133,106,324</b>	<b>1,669,125</b>	<b>1.3%</b>	<b>5,860,814</b>	<b>4.6%</b>
<b><u>REVENUES:</u></b>							
<b><u>Rate Revenue</u></b>							
Residential	55,449,195	56,649,195	58,311,083	1,200,000	2.2%	2,861,888	5.2%
Industrial/Commercial/Institutional/Multi-res	60,529,187	58,329,187	62,945,512	(2,200,000)	(3.6%)	2,416,325	4.0%
Non-Metered	440,000	440,000	412,500	-	0.0%	(27,500)	(6.3%)
Hauler / 3rd Party Sales	700,000	952,857	910,000	252,857	36.1%	210,000	30.0%
Overstrength Agreements	3,210,510	3,012,854	3,306,825	(197,656)	(6.2%)	96,315	3.0%
Sewer Surcharge Agreements	6,224,456	5,600,130	6,511,190	(624,327)	(10.0%)	286,734	4.6%
<b>Sub-Total Utility Rates</b>	<b>126,553,348</b>	<b>124,984,223</b>	<b>132,397,110</b>	<b>(1,569,125)</b>	<b>(1.2%)</b>	<b>5,843,762</b>	<b>4.6%</b>
<b><u>Non-Rate Revenue</u></b>							
Local Improvement Recoveries	265,850	265,850	265,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	213,010	113,010	221,530	(100,000)	(46.9%)	8,520	4.0%
Investment Income	-	-	-	-	0.0%	-	0.0%
General Fees and Recoveries	213,302	213,302	221,834	-	0.0%	8,532	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>692,162</b>	<b>592,162</b>	<b>709,214</b>	<b>(100,000)</b>	<b>(14.4%)</b>	<b>17,052</b>	<b>2.5%</b>
<b>TOTAL REVENUES</b>	<b>127,245,510</b>	<b>125,576,385</b>	<b>133,106,324</b>	<b>(1,669,125)</b>	<b>(1.3%)</b>	<b>5,860,814</b>	<b>4.6%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2022 - 2025 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WASTEWATER AND STORM**

	2021 RESTATED BUDGET	2022 REQUESTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	CHANGE 2022 REQUESTED / 2021 RESTATED BUDGET		CHANGE 2023 PROJECTED / 2022 REQUESTED BUDGET		CHANGE 2024 PROJECTED / 2023 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>											
Divisional Administration & Support	1,355,470	1,303,017	1,355,138	1,409,343	1,465,717	(52,453)	(3.9%)	52,121	4.0%	54,206	4.0%
Woodward Upgrades	1,735,670	1,764,829	1,835,422	1,908,839	1,985,193	29,159	1.7%	70,593	4.0%	73,417	4.0%
Customer Service	162,625	164,639	171,225	178,074	185,197	2,014	1.2%	6,586	4.0%	6,849	4.0%
Outreach & Education	546,906	555,660	577,886	601,002	625,042	8,754	1.6%	22,226	4.0%	23,115	4.0%
Service Co-ordination	1,715,297	1,754,789	1,824,981	1,897,980	1,973,899	39,492	2.3%	70,192	4.0%	72,999	4.0%
Engineering Systems & Data Collection	586,186	576,873	599,948	623,946	648,904	(9,313)	(1.6%)	23,075	4.0%	23,998	4.0%
Compliance & Regulations	502,527	509,911	530,308	551,520	573,581	7,384	1.5%	20,396	4.0%	21,212	4.0%
Laboratory Services	2,428,724	2,558,375	2,660,710	2,767,138	2,877,824	129,651	5.3%	102,335	4.0%	106,428	4.0%
Environmental Monitoring & Enforcement	2,215,026	2,478,749	2,577,899	2,681,015	2,788,256	263,723	11.9%	99,150	4.0%	103,116	4.0%
Water Distribution & Wastewater Collection	8,585,278	9,459,046	9,837,408	10,230,904	10,640,140	873,769	10.2%	378,362	4.0%	393,496	4.0%
Plant Operations	14,079,338	15,640,578	16,266,201	16,916,849	17,593,523	1,561,240	11.1%	625,623	4.0%	650,648	4.0%
Plant Maintenance	5,407,762	5,854,386	6,088,561	6,332,103	6,585,388	446,624	8.3%	234,175	4.0%	243,542	4.0%
Capital Delivery	1,139,749	1,240,016	1,289,617	1,341,202	1,394,850	100,267	8.8%	49,601	4.0%	51,585	4.0%
Watershed Management	1,275,560	1,382,313	1,437,606	1,495,110	1,554,914	106,753	8.4%	55,293	4.0%	57,504	4.0%
Infrastructure Planning & System Design	1,447,776	1,470,116	1,528,921	1,590,078	1,653,681	22,340	1.5%	58,805	4.0%	61,157	4.0%
Wastewater Abatement Program	1,192,450	1,142,450	1,188,148	1,235,674	1,285,101	(50,000)	(4.2%)	45,698	4.0%	47,526	4.0%
Alectra Utilities Service Contract	2,856,000	2,913,120	3,029,645	3,150,831	3,276,864	57,120	2.0%	116,525	4.0%	121,186	4.0%
Corporate & Departmental Support Services	3,983,403	4,266,653	4,437,320	4,614,812	4,799,405	283,250	7.1%	170,666	4.0%	177,493	4.0%
Utilities Arrears Program	250,160	250,160	260,166	270,573	281,396	-	0.0%	10,006	4.0%	10,407	4.0%
Sewer Lateral Management Program	300,000	300,000	312,000	324,480	337,459	-	0.0%	12,000	4.0%	12,480	4.0%
Hamilton Harbour Remedial Action Plan	370,964	578,964	602,123	626,207	651,256	208,000	56.1%	23,159	4.0%	24,085	4.0%
Protective Plumbing Program (3P)	752,870	752,870	782,985	814,304	846,876	-	0.0%	30,115	4.0%	31,319	4.0%
Financial Charges	86,020	86,020	89,461	93,039	96,761	-	0.0%	3,441	4.0%	3,578	4.0%
	52,975,760	57,003,536	59,283,677	61,655,024	64,121,225	4,027,776	7.6%	2,280,141	4.0%	2,371,347	4.0%
Capital and Reserve Recoveries	(5,407,417)	(5,407,417)	(5,623,714)	(5,848,662)	(6,082,609)	-	0.0%	(216,297)	4.0%	(224,949)	4.0%
<b>Sub-Total</b>	<b>47,568,343</b>	<b>51,596,119</b>	<b>53,659,963</b>	<b>55,806,362</b>	<b>58,038,616</b>	<b>4,027,776</b>	<b>8.5%</b>	<b>2,063,845</b>	<b>4.0%</b>	<b>2,146,399</b>	<b>4.0%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>											
<b><u>Contributions to Capital</u></b>											
Wastewater	57,237,984	73,784,138	35,726,470	31,791,470	46,481,470	16,546,154	28.9%	(38,057,668)	(51.6%)	(3,935,000)	(11.0%)
Stormwater	17,632,679	11,765,000	19,640,000	24,345,000	14,255,000	(5,867,679)	(33.3%)	7,875,000	66.9%	4,705,000	24.0%
<b>Sub-Total Contributions to Capital</b>	<b>74,870,663</b>	<b>85,549,138</b>	<b>55,366,470</b>	<b>56,136,470</b>	<b>60,736,470</b>	<b>10,678,475</b>	<b>14.3%</b>	<b>(30,182,668)</b>	<b>(35.3%)</b>	<b>770,000</b>	<b>1.4%</b>
Wastewater	4,590,000	4,590,000	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%	-	0.0%
Stormwater	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b><u>Capital Debt Charges</u></b>											
Wastewater	12,534,242	12,881,726	20,924,014	28,829,548	37,469,380	347,484	2.8%	8,042,288	62.4%	7,905,534	37.8%
Stormwater	2,490,898	3,584,490	4,530,697	5,128,028	5,611,572	1,093,592	43.9%	946,207	26.4%	597,331	13.2%
DC Debt Charges Recoveries	(3,224,887)	(3,765,196)	(9,493,044)	(14,512,656)	(19,089,240)	(540,309)	16.8%	(5,727,848)	152.1%	(5,019,612)	52.9%
<b>Sub-Total Debt Charges</b>	<b>11,800,254</b>	<b>12,701,020</b>	<b>15,961,667</b>	<b>19,444,920</b>	<b>23,991,712</b>	<b>900,766</b>	<b>7.6%</b>	<b>3,260,647</b>	<b>25.7%</b>	<b>3,483,253</b>	<b>21.8%</b>
<b>Sub-Total Capital Financing</b>	<b>93,150,917</b>	<b>104,730,158</b>	<b>77,808,137</b>	<b>82,061,390</b>	<b>91,208,182</b>	<b>11,579,241</b>	<b>12.4%</b>	<b>(26,922,021)</b>	<b>(25.7%)</b>	<b>4,253,253</b>	<b>5.5%</b>
<b>Reserve Transfers</b>	<b>(13,473,749)</b>	<b>(23,219,952)</b>	<b>8,198,506</b>	<b>8,265,515</b>	<b>3,435,021</b>	<b>(9,746,203)</b>	<b>72.3%</b>	<b>31,418,458</b>	<b>(135.3%)</b>	<b>67,009</b>	<b>0.8%</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>79,677,167</b>	<b>81,510,206</b>	<b>86,006,642</b>	<b>90,326,905</b>	<b>94,643,203</b>	<b>1,833,039</b>	<b>2.3%</b>	<b>4,496,437</b>	<b>5.5%</b>	<b>4,320,262</b>	<b>5.0%</b>
<b>TOTAL EXPENDITURES</b>	<b>127,245,510</b>	<b>133,106,324</b>	<b>139,666,606</b>	<b>146,133,267</b>	<b>152,681,819</b>	<b>5,860,814</b>	<b>4.6%</b>	<b>6,560,281</b>	<b>4.9%</b>	<b>6,466,661</b>	<b>4.6%</b>

**CITY OF HAMILTON**  
**2022 - 2025 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WASTEWATER AND STORM**

	2021 RESTATED BUDGET	2022 REQUESTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	CHANGE 2022 REQUESTED / 2021 RESTATED BUDGET	CHANGE 2023 PROJECTED / 2022 REQUESTED BUDGET	CHANGE 2024 PROJECTED / 2023 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	%	\$	%	\$	%	
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	55,449,195	58,311,083	61,797,051	65,091,923	68,445,098	2,861,888	5.2%	3,485,968	6.0%	3,294,872	5.3%
Industrial/Commercial/Institutional/Multi-res	60,529,187	62,945,512	65,555,470	68,247,529	70,939,589	2,416,325	4.0%	2,609,958	4.1%	2,692,060	4.1%
Non-Metered	440,000	412,500	430,000	445,000	465,000	(27,500)	(6.3%)	17,500	4.2%	15,000	3.5%
Hauler / 3rd Party Sales	700,000	910,000	946,400	984,256	1,023,626	210,000	30.0%	36,400	4.0%	37,856	4.0%
Overstrength Agreements	3,210,510	3,306,825	3,439,098	3,576,662	3,719,729	96,315	3.0%	132,273	4.0%	137,564	4.0%
Sewer Surcharge Agreements	6,224,456	6,511,190	6,771,637	7,042,503	7,324,203	286,734	4.6%	260,448	4.0%	270,865	4.0%
<b>Sub-Total Utility Rates</b>	<b>126,553,348</b>	<b>132,397,110</b>	<b>138,939,657</b>	<b>145,387,874</b>	<b>151,917,245</b>	<b>5,843,762</b>	<b>4.6%</b>	<b>6,542,547</b>	<b>4.9%</b>	<b>6,448,217</b>	<b>4.6%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	265,850	265,850	265,850	265,850	265,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	213,010	221,530	230,392	239,607	249,192	8,520	4.0%	8,861	4.0%	9,216	4.0%
Investment Income	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	213,302	221,834	230,707	239,936	249,533	8,532	4.0%	8,873	4.0%	9,228	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>692,162</b>	<b>709,214</b>	<b>726,949</b>	<b>745,393</b>	<b>764,575</b>	<b>17,052</b>	<b>2.5%</b>	<b>17,735</b>	<b>2.5%</b>	<b>18,444</b>	<b>2.5%</b>
<b>TOTAL REVENUES</b>	<b>127,245,510</b>	<b>133,106,324</b>	<b>139,666,606</b>	<b>146,133,267</b>	<b>152,681,819</b>	<b>5,860,814</b>	<b>4.6%</b>	<b>6,560,281</b>	<b>4.9%</b>	<b>6,466,661</b>	<b>4.6%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2022-2031 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WASTEWATER AND STORM**  
**(\$ 000'S)**

	2021 Restated	2022 Requested	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast
<b>OPERATING EXPENDITURES</b>											
OPERATING COSTS	47,568	51,596	53,660	55,806	58,039	60,360	62,775	65,286	67,897	70,613	73,437
TERTIARY TREATMENT	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL OPERATING COSTS</b>	<b>47,568</b>	<b>51,596</b>	<b>53,660</b>	<b>55,806</b>	<b>58,039</b>	<b>60,360</b>	<b>62,775</b>	<b>65,286</b>	<b>67,897</b>	<b>70,613</b>	<b>73,437</b>
<b>CAPITAL &amp; RESERVE IMPACTS ON OPERATING</b>											
<b>Contributions to Capital</b>											
Wastewater	57,238	73,784	35,726	31,791	46,481	72,871	78,996	82,656	89,186	90,106	100,696
Stormwater	17,633	11,765	19,640	24,345	14,255	10,265	32,055	34,265	33,855	32,215	33,355
<b>Sub-total Contributions to Capital</b>	<b>74,871</b>	<b>85,549</b>	<b>55,366</b>	<b>56,136</b>	<b>60,736</b>	<b>83,136</b>	<b>111,051</b>	<b>116,921</b>	<b>123,041</b>	<b>122,321</b>	<b>134,051</b>
<b>Contributions for DC Exemptions</b>											
Wastewater	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590
Stormwater	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
<b>Sub-total Contributions to Capital</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>
<b>Debt Charges</b>											
Wastewater	12,534	12,882	20,924	28,830	37,469	44,805	50,966	56,025	59,603	58,873	58,812
Stormwater	2,491	3,584	4,531	5,128	5,612	5,826	6,129	6,717	7,176	7,317	7,026
DC Debt Charges Recoveries	(3,225)	(3,765)	(9,493)	(14,513)	(19,089)	(24,387)	(30,925)	(37,375)	(40,613)	(40,639)	(40,666)
<b>Sub-total Debt Charges</b>	<b>11,800</b>	<b>12,701</b>	<b>15,962</b>	<b>19,445</b>	<b>23,992</b>	<b>26,243</b>	<b>26,170</b>	<b>25,368</b>	<b>26,166</b>	<b>25,550</b>	<b>25,173</b>
<b>Reserve Transfers</b>	<b>(13,474)</b>	<b>(23,220)</b>	<b>8,199</b>	<b>8,266</b>	<b>3,435</b>	<b>(16,901)</b>	<b>(39,868)</b>	<b>(41,023)</b>	<b>(42,907)</b>	<b>(36,551)</b>	<b>(42,885)</b>
<b>Sub-Total Capital &amp; Reserve Impacts on Operating</b>	<b>79,677</b>	<b>81,510</b>	<b>86,007</b>	<b>90,327</b>	<b>94,643</b>	<b>98,958</b>	<b>103,833</b>	<b>107,746</b>	<b>112,781</b>	<b>117,801</b>	<b>122,819</b>
<b>TOTAL EXPENDITURES</b>	<b>127,246</b>	<b>133,106</b>	<b>139,667</b>	<b>146,133</b>	<b>152,682</b>	<b>159,319</b>	<b>166,608</b>	<b>173,032</b>	<b>180,678</b>	<b>188,414</b>	<b>196,257</b>
<b>REVENUES</b>											
Residential	55,449	58,311	61,797	65,092	68,445	71,857	75,614	78,688	82,841	87,065	91,363
Industrial/Commercial/Institutional/Multi-res	60,529	62,946	65,555	68,248	70,940	73,632	76,610	79,384	82,280	85,171	88,067
Non-Metered	440	413	430	445	465	485	505	525	545	565	590
Hauler / 3rd Party Sales	700	910	946	984	1,024	1,065	1,107	1,151	1,197	1,245	1,295
Overstrength Agreements	3,211	3,307	3,439	3,577	3,720	3,869	4,023	4,184	4,352	4,526	4,707
Sewer Surcharge Agreements	6,224	6,511	6,772	7,043	7,324	7,617	7,922	8,239	8,568	8,911	9,267
Non-Rate Revenue	692	709	727	745	765	795	827	860	894	930	967
<b>TOTAL REVENUES</b>	<b>127,246</b>	<b>133,106</b>	<b>139,667</b>	<b>146,133</b>	<b>152,682</b>	<b>159,319</b>	<b>166,608</b>	<b>173,032</b>	<b>180,678</b>	<b>188,414</b>	<b>196,257</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Rate Increase</b>	<b>5.2%</b>	<b>4.3%</b>	<b>4.7%</b>	<b>4.1%</b>	<b>4.0%</b>	<b>3.8%</b>	<b>4.1%</b>	<b>3.0%</b>	<b>4.1%</b>	<b>4.0%</b>	<b>3.8%</b>
<b>RESIDENTIAL BILL (200m<sup>3</sup> p.a.)</b>	<b>\$ 408.10</b>	<b>\$ 425.80</b>	<b>\$ 445.95</b>	<b>\$ 464.45</b>	<b>\$ 482.95</b>	<b>\$ 501.45</b>	<b>\$ 521.95</b>	<b>\$ 537.60</b>	<b>\$ 559.75</b>	<b>\$ 581.90</b>	<b>\$ 604.05</b>

**CITY OF HAMILTON**  
**2022 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**WASTEWATER**

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL %	2022 REQUESTED / 2021 RESTATED BUDGET	%
	\$	\$	\$	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
<b><u>Environmental Services</u></b>							
Divisional Administration & Support	1,109,021	1,175,738	1,066,105	(66,717)	(6.0%)	(42,916)	(3.9%)
Woodward Upgrades	1,735,670	1,835,177	1,764,829	(99,507)	(5.7%)	29,159	1.7%
Customer Service	130,100	99,173	131,711	30,927	23.8%	1,611	1.2%
Outreach & Education	437,525	303,412	444,528	134,113	30.7%	7,003	1.6%
Service Co-ordination	1,015,176	934,132	1,038,549	81,043	8.0%	23,373	2.3%
Engineering Systems & Data Collection	468,949	228,443	461,499	240,506	51.3%	(7,450)	(1.6%)
Compliance & Regulations	477,401	455,741	484,416	21,660	4.5%	7,015	1.5%
Laboratory Services	2,292,611	2,390,119	2,414,995	(97,509)	(4.3%)	122,385	5.3%
Environmental Monitoring & Enforcement	2,130,191	2,018,932	2,383,813	111,258	5.2%	253,622	11.9%
Water Distribution & Wastewater Collection	4,995,611	5,446,710	5,504,041	(451,099)	(9.0%)	508,429	10.2%
Plant Operations	13,995,543	14,832,287	15,547,491	(836,744)	(6.0%)	1,551,949	11.1%
Plant Maintenance	4,758,830	4,721,025	5,151,859	37,806	0.8%	393,029	8.3%
Capital Delivery	932,522	965,130	1,014,559	(32,608)	(3.5%)	82,037	8.8%
Infrastructure Planning & System Design	1,184,544	1,165,371	1,202,822	19,173	1.6%	18,278	1.5%
Wastewater Abatement Program	1,192,450	887,579	1,142,450	304,872	25.6%	(50,000)	(4.2%)
Alectra Utilities Service Contract	2,856,000	2,866,646	2,913,120	(10,646)	(0.4%)	57,120	2.0%
Corporate & Departmental Support Services	3,476,425	3,532,383	3,723,625	(55,958)	(1.6%)	247,200	7.1%
Utilities Arrears Program	250,160	177,040	250,160	73,120	29.2%	-	0.0%
Sewer Lateral Management Program	300,000	299,796	300,000	204	0.1%	-	0.0%
Financial Charges	86,020	86,020	86,020	-	0.0%	-	0.0%
	43,824,747	44,420,854	47,026,591	(596,107)	(1.4%)	3,201,845	7.3%
Capital and Reserve Recoveries	(3,721,817)	(3,711,748)	(3,721,817)	(10,070)	0.3%	-	0.0%
<b>Sub-Total Environmental Services</b>	<b>40,102,929</b>	<b>40,709,106</b>	<b>43,304,774</b>	<b>(606,177)</b>	<b>(1.5%)</b>	<b>3,201,845</b>	<b>8.0%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Wastewater	57,237,984	57,237,984	73,784,138	-	0.0%	16,546,154	28.9%
<b>Sub-Total Contributions to Capital</b>	<b>57,237,984</b>	<b>57,237,984</b>	<b>73,784,138</b>	<b>-</b>	<b>0.0%</b>	<b>16,546,154</b>	<b>28.9%</b>
<b><u>Contributions for DC Exemptions</u></b>							
Wastewater	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b><u>Capital Debt Charges</u></b>							
Wastewater	12,534,242	10,781,146	12,881,726	1,753,096	14.0%	347,484	2.8%
DC Debt Charges Recoveries	(2,928,246)	(2,928,244)	(2,993,473)	(2)	0.0%	(65,227)	2.2%
<b>Sub-Total Debt Charges</b>	<b>9,605,996</b>	<b>7,852,902</b>	<b>9,888,253</b>	<b>1,753,094</b>	<b>18.2%</b>	<b>282,257</b>	<b>2.9%</b>
<b>Sub-Total Capital Financing</b>	<b>71,433,980</b>	<b>69,680,886</b>	<b>88,262,391</b>	<b>1,753,094</b>	<b>2.5%</b>	<b>16,828,411</b>	<b>23.6%</b>



Reserve Transfers	15,708,601	15,186,392	1,539,159	522,208	3.3%	(14,169,442)	(90.2%)
Sub-Total Cap\Reserve Impacts on Operating	87,142,581	84,867,279	89,801,550	2,275,302	2.6%	2,658,969	3.1%
<b>TOTAL EXPENDITURES</b>	<b>127,245,510</b>	<b>125,576,385</b>	<b>133,106,324</b>	<b>1,669,125</b>	<b>1.3%</b>	<b>5,860,814</b>	<b>4.6%</b>
<b>REVENUES:</b>							
<b>Rate Revenue</b>							
Residential	55,449,195	56,649,195	58,311,083	1,200,000	2.2%	2,861,888	5.2%
Industrial/Commercial/Institutional/Multi-res	60,529,187	58,329,187	62,945,512	(2,200,000)	(3.6%)	2,416,325	4.0%
Non-Metered	440,000	440,000	412,500	-	0.0%	(27,500)	(6.3%)
Hauler / 3rd Party Sales	700,000	952,857	910,000	252,857	36.1%	210,000	30.0%
Overstrength Agreements	3,210,510	3,012,854	3,306,825	(197,656)	(6.2%)	96,315	3.0%
Sewer Surcharge Agreements	6,224,456	5,600,130	6,511,190	(624,327)	(10.0%)	286,734	4.6%
<b>Sub-Total Utility Rates</b>	<b>126,553,348</b>	<b>124,984,223</b>	<b>132,397,110</b>	<b>(1,569,125)</b>	<b>(1.2%)</b>	<b>5,843,762</b>	<b>4.6%</b>
<b>Non-Rate Revenue</b>							
Local Improvement Recoveries	265,850	265,850	265,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	213,010	113,010	221,530	(100,000)	(46.9%)	8,520	4.0%
General Fees and Recoveries	213,302	213,302	221,834	-	0.0%	8,532	4.0%
	-	-	-				
<b>Sub-Total Non-Rate Revenue</b>	<b>692,162</b>	<b>592,162</b>	<b>709,214</b>	<b>(100,000)</b>	<b>(14.4%)</b>	<b>17,052</b>	<b>2.5%</b>
<b>TOTAL REVENUES</b>	<b>127,245,510</b>	<b>125,576,385</b>	<b>133,106,324</b>	<b>(1,669,125)</b>	<b>(1.3%)</b>	<b>5,860,814</b>	<b>4.6%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2022 - 2025 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**WASTEWATER**

	2021 RESTATED BUDGET	2022 REQUESTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	CHANGE 2022 REQUESTED / 2021 RESTATED BUDGET		CHANGE 2023 PROJECTED / 2022 REQUESTED BUDGET		CHANGE 2024 PROJECTED / 2023 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>											
Divisional Administration & Support	1,109,021	1,066,105	1,108,749	1,153,099	1,199,223	(42,916)	(3.9%)	42,644	4.0%	44,350	4.0%
Woodward Upgrades	1,735,670	1,764,829	1,835,422	1,908,839	1,985,193	29,159	1.7%	70,593	4.0%	73,417	4.0%
Customer Service	130,100	131,711	136,980	142,459	148,157	1,611	1.2%	5,268	4.0%	5,479	4.0%
Outreach & Education	437,525	444,528	462,309	480,801	500,034	7,003	1.6%	17,781	4.0%	18,492	4.0%
Service Co-ordination	1,015,176	1,038,549	1,080,091	1,123,294	1,168,226	23,373	2.3%	41,542	4.0%	43,204	4.0%
Engineering Systems & Data Collection	468,949	461,499	479,958	499,157	519,123	(7,450)	(1.6%)	18,460	4.0%	19,198	4.0%
Compliance & Regulations	477,401	484,416	503,792	523,944	544,902	7,015	1.5%	19,377	4.0%	20,152	4.0%
Laboratory Services	2,292,611	2,414,995	2,511,595	2,612,059	2,716,541	122,385	5.3%	96,600	4.0%	100,464	4.0%
Environmental Monitoring & Enforcement	2,130,191	2,383,813	2,479,165	2,578,332	2,681,465	253,622	11.9%	95,353	4.0%	99,167	4.0%
Water Distribution & Wastewater Collection	4,995,611	5,504,041	5,724,202	5,953,170	6,191,297	508,429	10.2%	220,162	4.0%	228,968	4.0%
Plant Operations	13,995,543	15,547,491	16,169,391	16,816,166	17,488,813	1,551,949	11.1%	621,900	4.0%	646,776	4.0%
Plant Maintenance	4,758,830	5,151,859	5,357,934	5,572,251	5,795,141	393,029	8.3%	206,074	4.0%	214,317	4.0%
Capital Delivery	932,522	1,014,559	1,055,141	1,097,347	1,141,241	82,037	8.8%	40,582	4.0%	42,206	4.0%
Infrastructure Planning & System Design	1,184,544	1,202,822	1,250,935	1,300,973	1,353,012	18,278	1.5%	48,113	4.0%	50,037	4.0%
Wastewater Abatement Program	1,192,450	1,142,450	1,188,148	1,235,674	1,285,101	(50,000)	(4.2%)	45,698	4.0%	47,526	4.0%
Alectra Utilities Service Contract	2,856,000	2,913,120	3,029,645	3,150,831	3,276,864	57,120	2.0%	116,525	4.0%	121,186	4.0%
Corporate & Departmental Support Services	3,476,425	3,723,625	3,872,570	4,027,473	4,188,571	247,200	7.1%	148,945	4.0%	154,903	4.0%
Utilities Arrears Program	250,160	250,160	270,166	270,573	281,396	-	0.0%	10,006	4.0%	10,407	4.0%
Sewer Lateral Management Program	300,000	300,000	312,000	324,480	337,459	-	0.0%	12,000	4.0%	12,480	4.0%
Financial Charges	86,020	86,020	89,461	93,039	96,761	-	0.0%	3,441	4.0%	3,578	4.0%
	43,824,747	47,026,591	48,907,655	50,863,961	52,898,520	3,201,845	7.3%	1,881,064	4.0%	1,956,306	4.0%
Capital and Reserve Recoveries	(3,721,817)	(3,721,817)	(3,870,690)	(4,025,518)	(4,186,538)	-	0.0%	(148,873)	4.0%	(154,828)	4.0%
<b>Sub-Total</b>	<b>40,102,929</b>	<b>43,304,774</b>	<b>45,036,965</b>	<b>46,838,444</b>	<b>48,711,981</b>	<b>3,201,845</b>	<b>8.0%</b>	<b>1,732,191</b>	<b>4.0%</b>	<b>1,801,479</b>	<b>4.0%</b>
<b>Capital and Reserve Impacts on Operating</b>											
<b>Contributions to Capital</b>											
Wastewater	57,237,984	73,784,138	35,726,470	31,791,470	46,481,470	16,546,154	28.9%	(38,057,668)	(51.6%)	(3,935,000)	(11.0%)
<b>Sub-Total Contributions to Capital</b>	<b>57,237,984</b>	<b>73,784,138</b>	<b>35,726,470</b>	<b>31,791,470</b>	<b>46,481,470</b>	<b>16,546,154</b>	<b>28.9%</b>	<b>(38,057,668)</b>	<b>(51.6%)</b>	<b>(3,935,000)</b>	<b>(11.0%)</b>
<b>Contributions for DC Exemptions</b>											
Wastewater	4,590,000	4,590,000	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b>Debt Charges</b>											
Wastewater	12,534,242	12,881,726	20,924,014	28,829,548	37,469,380	347,484	2.8%	8,042,288	62.4%	7,905,534	37.8%
DC Debt Charges Recoveries	(2,928,246)	(2,993,473)	(7,812,680)	(12,270,939)	(16,397,892)	(65,227)	2.2%	(4,819,208)	161.0%	(4,458,258)	57.1%
<b>Sub-Total Debt Charges</b>	<b>9,605,996</b>	<b>9,888,253</b>	<b>13,111,333</b>	<b>16,558,610</b>	<b>21,071,488</b>	<b>282,257</b>	<b>2.9%</b>	<b>3,223,080</b>	<b>32.6%</b>	<b>3,447,276</b>	<b>26.3%</b>
<b>Sub-Total Capital Financing</b>	<b>71,433,980</b>	<b>88,262,391</b>	<b>53,427,803</b>	<b>52,940,080</b>	<b>72,142,958</b>	<b>16,828,411</b>	<b>23.6%</b>	<b>(34,834,588)</b>	<b>(39.5%)</b>	<b>(487,724)</b>	<b>(0.9%)</b>
<b>Reserve Transfers</b>	<b>15,708,601</b>	<b>1,539,159</b>	<b>41,201,837</b>	<b>46,354,743</b>	<b>31,826,880</b>	<b>(14,169,442)</b>	<b>(90.2%)</b>	<b>39,662,678</b>	<b>2576.9%</b>	<b>5,152,906</b>	<b>12.5%</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>87,142,581</b>	<b>89,801,550</b>	<b>94,629,641</b>	<b>99,294,823</b>	<b>103,969,838</b>	<b>2,658,969</b>	<b>3.1%</b>	<b>4,828,090</b>	<b>5.4%</b>	<b>4,665,182</b>	<b>4.9%</b>
<b>TOTAL EXPENDITURES</b>	<b>127,245,510</b>	<b>133,106,324</b>	<b>139,666,606</b>	<b>146,133,267</b>	<b>152,681,819</b>	<b>5,860,814</b>	<b>4.6%</b>	<b>6,560,281</b>	<b>4.9%</b>	<b>6,466,661</b>	<b>4.6%</b>

**REVENUES:****Rate Revenue**

Residential	55,449,195	58,311,083	61,797,051	65,091,923	68,445,098	2,861,888	5.2%	3,485,968	6.0%	3,294,872	5.3%
Industrial/Commercial/Institutional/Multi-res	60,529,187	62,945,512	65,555,470	68,247,529	70,939,589	2,416,325	4.0%	2,609,958	4.1%	2,692,060	4.1%
Non-Metered	440,000	412,500	430,000	445,000	465,000	(27,500)	(6.3%)	17,500	4.2%	15,000	3.5%
Hauler / 3rd Party Sales	700,000	910,000	946,400	984,256	1,023,626	210,000	30.0%	36,400	4.0%	37,856	4.0%
Overstrength Agreements	3,210,510	3,306,825	3,439,098	3,576,662	3,719,729	96,315	3.0%	132,273	4.0%	137,564	4.0%
Sewer Surcharge Agreements	6,224,456	6,511,190	6,771,637	7,042,503	7,324,203	286,734	4.6%	260,448	4.0%	270,865	4.0%
<b>Sub-Total Utility Rates</b>	<b>126,553,348</b>	<b>132,397,110</b>	<b>138,939,657</b>	<b>145,387,874</b>	<b>151,917,245</b>	<b>5,843,762</b>	<b>4.6%</b>	<b>6,542,547</b>	<b>4.9%</b>	<b>6,448,217</b>	<b>4.6%</b>

**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	213,010	221,530	230,392	239,607	249,192	8,520	4.0%	8,861	4.0%	9,216	4.0%
Investment Income	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	213,302	221,834	230,707	239,936	249,533	8,532	4.0%	8,873	4.0%	9,228	4.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>692,162</b>	<b>709,214</b>	<b>726,949</b>	<b>745,393</b>	<b>764,575</b>	<b>17,052</b>	<b>2.5%</b>	<b>17,735</b>	<b>2.5%</b>	<b>18,444</b>	<b>2.5%</b>

**TOTAL REVENUES**

<b>127,245,510</b>	<b>133,106,324</b>	<b>139,666,606</b>	<b>146,133,267</b>	<b>152,681,819</b>	<b>5,860,814</b>	<b>4.6%</b>	<b>6,560,281</b>	<b>4.9%</b>	<b>6,466,661</b>	<b>4.6%</b>
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**NET EXPENDITURES**

-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
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**CITY OF HAMILTON**  
**2022 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**STORM**

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL	2022 REQUESTED / 2021 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
Divisional Administration & Support	246,449	261,275	236,912	(14,826)	(6.0%)	(9,537)	(3.9%)
Customer Service	32,525	24,793	32,928	7,732	23.8%	403	1.2%
Outreach & Education	109,381	75,853	111,132	33,528	30.7%	1,751	1.6%
Service Co-ordination	700,121	644,229	716,240	55,892	8.0%	16,119	2.3%
Engineering Systems & Data Collection	117,237	57,111	115,375	60,127	51.3%	(1,863)	(1.6%)
Compliance & Regulations	25,126	23,986	25,496	1,140	4.5%	369	1.5%
Laboratory Services	136,114	141,903	143,380	(5,789)	(4.3%)	7,266	5.3%
Environmental Monitoring & Enforcement	84,835	80,405	94,936	4,431	5.2%	10,101	11.9%
Water Distribution & Wastewater Collection	3,589,666	3,913,810	3,955,005	(324,143)	(9.0%)	365,339	10.2%
Plant Operations	83,795	88,805	93,087	(5,010)	(6.0%)	9,292	11.1%
Plant Maintenance	648,931	643,776	702,526	5,155	0.8%	53,595	8.3%
Capital Delivery	207,227	214,473	225,458	(7,246)	(3.5%)	18,230	8.8%
Watershed Management	1,275,560	1,016,538	1,382,313	259,022	20.3%	106,753	8.4%
Infrastructure Planning & System Design	263,232	258,971	267,294	4,261	1.6%	4,062	1.5%
Corporate & Departmental Support Services	506,979	515,139	543,029	(8,161)	(1.6%)	36,050	7.1%
Hamilton Harbour Remedial Action Plan	370,964	547,987	578,964	(177,023)	(47.7%)	208,000	56.1%
Protective Plumbing Program (3P)	752,870	666,929	752,870	85,942	11.4%	-	0.0%
	9,151,014	9,175,983	9,976,944	(24,970)	(0.3%)	825,931	9.0%
Capital and Reserve Recoveries	(1,685,600)	(1,681,039)	(1,685,600)	(4,561)	0.3%	-	0.0%
<b>Sub-Total</b>	<b>7,465,414</b>	<b>7,494,944</b>	<b>8,291,345</b>	<b>(29,530)</b>	<b>(0.4%)</b>	<b>825,931</b>	<b>11.1%</b>

**Capital and Reserve Impacts on Operating**

**Contributions to Capital**

Stormwater	17,632,679	17,632,679	11,765,000	-	0.0%	(5,867,679)	(33.3%)
<b>Sub-Total Contributions to Capital</b>	<b>17,632,679</b>	<b>17,632,679</b>	<b>11,765,000</b>	<b>-</b>	<b>0.0%</b>	<b>(5,867,679)</b>	<b>(33.3%)</b>

**Contributions for DC Exemptions**

Stormwater	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**Capital Debt Charges**

Stormwater	2,490,898	2,356,948	3,584,490	133,950	5.4%	1,093,592	43.9%
DC Debt Charges Recoveries	(296,641)	(296,641)	(771,723)	-	0.0%	(475,082)	160.2%
<b>Sub-Total Debt Charges</b>	<b>2,194,257</b>	<b>2,060,307</b>	<b>2,812,767</b>	<b>133,950</b>	<b>6.1%</b>	<b>618,510</b>	<b>28.2%</b>

<b>Sub-Total Capital Financing</b>	<b>21,716,936</b>	<b>21,582,986</b>	<b>16,467,767</b>	<b>133,950</b>	<b>0.6%</b>	<b>(5,249,169)</b>	<b>(24.2%)</b>
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<b>Reserve Transfers</b>	<b>(29,182,350)</b>	<b>(29,077,930)</b>	<b>(24,759,111)</b>	<b>(104,420)</b>	<b>0.4%</b>	<b>4,423,239</b>	<b>(15.2%)</b>
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<b>Sub-Total Cap\Reserve Impacts on Operating</b>	<b>(7,465,414)</b>	<b>(7,494,944)</b>	<b>(8,291,345)</b>	<b>29,530</b>	<b>(0.4%)</b>	<b>(825,931)</b>	<b>11.1%</b>
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<b>TOTAL EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
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<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
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**CITY OF HAMILTON  
2022 - 2025 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
STORM**

	2021	2022	2023	2024	2025	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2022 REQUESTED / 2021 RESTATED BUDGET	%	2023 PROJECTED / 2022 REQUESTED BUDGET	%	2024 PROJECTED / 2023 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>											
Divisional Administration & Support	246,449	236,912	246,389	256,244	266,494	(9,537)	(3.9%)	9,476	4.0%	9,856	4.0%
Customer Service	32,525	32,928	34,245	35,615	37,039	403	1.2%	1,317	4.0%	1,370	4.0%
Outreach & Education	109,381	111,132	115,577	120,200	125,008	1,751	1.6%	4,445	4.0%	4,623	4.0%
Service Co-ordination	700,121	716,240	744,890	774,686	805,673	16,119	2.3%	28,650	4.0%	29,796	4.0%
Engineering Systems & Data Collection	117,237	115,375	119,990	124,789	129,781	(1,863)	(1.6%)	4,615	4.0%	4,800	4.0%
Compliance & Regulations	25,126	25,496	26,515	27,576	28,679	369	1.5%	1,020	4.0%	1,061	4.0%
Laboratory Services	136,114	143,380	149,115	155,080	161,283	7,266	5.3%	5,735	4.0%	5,965	4.0%
Environmental Monitoring & Enforcement	84,835	94,936	98,734	102,683	106,790	10,101	11.9%	3,797	4.0%	3,949	4.0%
Water Distribution & Wastewater Collection	3,589,666	3,955,005	4,113,206	4,277,734	4,448,843	365,339	10.2%	158,200	4.0%	164,528	4.0%
Plant Operations	83,795	93,087	96,810	100,683	104,710	9,292	11.1%	3,723	4.0%	3,872	4.0%
Plant Maintenance	648,931	702,526	730,627	759,852	790,247	53,595	8.3%	28,101	4.0%	29,225	4.0%
Capital Delivery	207,227	225,458	234,476	243,855	253,609	18,230	8.8%	9,018	4.0%	9,379	4.0%
Watershed Management	1,275,560	1,382,313	1,437,606	1,495,110	1,554,914	106,753	8.4%	55,293	4.0%	57,504	4.0%
Infrastructure Planning & System Design	263,232	267,294	277,986	289,105	300,669	4,062	1.5%	10,692	4.0%	11,119	4.0%
Wastewater Abatement Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Alectra Utilities Service Contract	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Corporate & Departmental Support Services	506,979	543,029	564,750	587,340	610,833	36,050	7.1%	21,721	4.0%	22,590	4.0%
Hamilton Harbour Remedial Action Plan	370,964	578,964	602,123	626,207	651,256	208,000	56.1%	23,159	4.0%	24,085	4.0%
Protective Plumbing Program (3P)	752,870	752,870	782,985	814,304	846,876	-	0.0%	30,115	4.0%	31,319	4.0%
Financial Charges	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
	9,151,014	9,976,944	10,376,022	10,791,063	11,222,706	825,931	9.0%	399,078	4.0%	415,041	4.0%
Capital and Reserve Recoveries	(1,685,600)	(1,685,600)	(1,753,024)	(1,823,145)	(1,896,071)	-	0.0%	(67,424)	4.0%	(70,121)	4.0%
<b>Sub-Total</b>	<b>7,465,414</b>	<b>8,291,345</b>	<b>8,622,998</b>	<b>8,967,918</b>	<b>9,326,635</b>	<b>825,931</b>	<b>11.1%</b>	<b>331,654</b>	<b>4.0%</b>	<b>344,920</b>	<b>4.0%</b>

**Capital and Reserve Impacts on Operating**

**Contributions to Capital**

Stormwater	17,632,679	11,765,000	19,640,000	24,345,000	14,255,000	(5,867,679)	(33.3%)	7,875,000	66.9%	4,705,000	24.0%
<b>Sub-Total Contributions to Capital</b>	<b>17,632,679</b>	<b>11,765,000</b>	<b>19,640,000</b>	<b>24,345,000</b>	<b>14,255,000</b>	<b>(5,867,679)</b>	<b>(33.3%)</b>	<b>7,875,000</b>	<b>66.9%</b>	<b>4,705,000</b>	<b>24.0%</b>

**Contributions for DC Exemptions**

Stormwater	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**Debt Charges**

Stormwater	2,490,898	3,584,490	4,530,697	5,128,028	5,611,572	1,093,592	43.9%	946,207	26.4%	597,331	13.2%
DC Debt Charges Recoveries	(296,641)	(771,723)	(1,680,364)	(2,241,718)	(2,691,348)	(475,082)	160.2%	(908,640)	117.7%	(561,354)	33.4%
<b>Sub-Total Debt Charges</b>	<b>2,194,257</b>	<b>2,812,767</b>	<b>2,850,333</b>	<b>2,886,310</b>	<b>2,920,224</b>	<b>618,510</b>	<b>28.2%</b>	<b>37,566</b>	<b>1.3%</b>	<b>35,977</b>	<b>1.3%</b>

<b>Sub-Total Capital Financing</b>	<b>21,716,936</b>	<b>16,467,767</b>	<b>24,380,333</b>	<b>29,121,310</b>	<b>19,065,224</b>	<b>(5,249,169)</b>	<b>(24.2%)</b>	<b>7,912,566</b>	<b>48.0%</b>	<b>4,740,977</b>	<b>19.4%</b>
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<b>Reserve Transfers</b>	<b>(29,182,350)</b>	<b>(24,759,111)</b>	<b>(33,003,332)</b>	<b>(38,089,229)</b>	<b>(28,391,859)</b>	<b>4,423,239</b>	<b>(15.2%)</b>	<b>(8,244,220)</b>	<b>33.3%</b>	<b>(5,085,897)</b>	<b>15.4%</b>
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<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>(7,465,414)</b>	<b>(8,291,345)</b>	<b>(8,622,998)</b>	<b>(8,967,918)</b>	<b>(9,326,635)</b>	<b>(825,931)</b>	<b>11.1%</b>	<b>(331,654)</b>	<b>4.0%</b>	<b>(344,920)</b>	<b>4.0%</b>
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<b>TOTAL EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
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**REVENUES:**

<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
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**HAMILTON WATER**  
**2022 RATE SUPPORTED STAFFING SUMMARY**

Deptid	Deptid Description	2021	2022	2022	2022	2022
		RESTATED	MAINTENANCE	PROGRAM CHANGES	REQUESTED	REQUESTED vs. 2021 RESTATED
510200	Director Hamilton Water	2.00	2.00	0.00	2.00	0.00
510202	Project Management Office	5.00	5.00	0.00	5.00	0.00
510203	WWW Operations Director	2.00	2.00	0.00	2.00	0.00
510205	Woodward Upgrades	7.00	7.00	0.00	7.00	0.00
510206	Inventory & Fleet Management	6.00	6.00	0.00	6.00	0.00
510210	Customer Service & Community Outreach	2.00	2.00	0.00	2.00	0.00
510215	Education & Outreach	5.65	5.65	0.00	5.65	0.00
510220	Service Co-ordination	22.00	22.00	0.00	22.00	0.00
510230	Engineering Systems & Data Collection	9.00	9.00	0.00	9.00	0.00
510240	Compliance & Regulations	7.00	7.00	1.00	8.00	1.00
510250	Laboratory Services	25.00	25.00	0.00	25.00	0.00
510260	Environmental Monitoring & Enforcement	16.00	16.00	1.00	17.00	1.00
510270	Water Distribution (WD) & Wastewtr Collection (WWC)	5.00	5.00	0.00	5.00	0.00
510275	WD & WWC Contracts	20.00	20.00	0.00	20.00	0.00
510280	WD & WWC Construction	23.00	23.00	0.00	23.00	0.00
510285	WD & WWC Maintenance	19.00	19.00	0.00	19.00	0.00
510290	WD & WWC Operations	21.00	21.00	2.00	23.00	2.00
510295	WD & WWC Storm	8.00	8.00	0.00	8.00	0.00
510300	WWW Planning & Capital Director	2.00	2.00	0.00	2.00	0.00
510310	Plant Operations & Maintenance	6.00	6.00	3.00	9.00	3.00
510320	Plant Maintenance & Technical Services	1.00	1.00	0.00	1.00	0.00
510321	Plant Maintenance	30.00	30.00	0.00	30.00	0.00
510322	Plant SCADA	6.00	6.00	1.00	7.00	1.00
510323	Plant Technical Services	5.00	5.00	1.00	6.00	1.00
510330	Plant Operations	44.00	44.00	1.00	45.00	1.00
510340	Capital Delivery	15.00	15.00	0.00	15.00	0.00
510350	Infrastructure Planning and System Design	19.00	19.00	0.00	19.00	0.00
510360	Watershed Management	5.00	5.00	0.00	5.00	0.00
<b>Total RATE Supported Staff</b>		<b>337.65</b>	<b>337.65</b>	<b>10.00</b>	<b>347.65</b>	<b>10.00</b>

## 2022 Rate Budget - Business Case Summary

**DEPARTMENT:** Public Works

DIVISION	SERVICE / PROGRAM	DESCRIPTION OF PROGRAM ENHANCEMENT	2022 IMPACT			ANNUALIZED IMPACT
			\$ GROSS	\$ NET	FTE Impact	\$ NET
Hamilton Water	Compliance & Regulations	Technologist for ongoing administration of the Wastewater Quality Management System and new consolidated ministry approvals. <u>NOTE:</u> Council approved a 2 year temporary assignment and requested staff report back in 2022 (Report FCS18087).	\$ 105,000	\$ -	1.00	\$ -
Hamilton Water	Compliance & Regulations	Environmental Enforcement Officer to support the new Construction Dewatering Program. <u>NOTE:</u> This position will be fully cost recovered from users fees applicable under the new program.	\$ 105,000	\$ -	1.00	\$ -
Hamilton Water	Water Distribution	Two Water Distribution Technologists / Inspectors to support the new Leak Detection Program across the city's drinking water system.	\$ 243,500	\$ 243,500	2.00	\$ 243,500
Hamilton Water	Plant Operations	Quality Assurance Analyst to support increasing compliance regulations.	\$ 87,500	\$ 87,500	1.00	\$ 87,500
Hamilton Water	Plant Operations	Superintendent to support increasing wastewater compliance requirements.	\$ 163,000	\$ 163,000	1.00	\$ 163,000
Hamilton Water	Plant Operations	Process Technologist to support increasing compliance regulations.	\$ 106,000	\$ 106,000	1.00	\$ 106,000
Hamilton Water	Plant Operations	Project Manager to administer the third party Biosolids Contract. <u>NOTE:</u> This position will result in a contractual expenditure budget reduction.	\$ 139,000	\$ 64,000	1.00	\$ 64,000
Hamilton Water	Plant Maintenance and Technical Services	Project Manager to support the Facility Compliance Program.	\$ 134,000	\$ 134,000	1.00	\$ 134,000
Hamilton Water	Plant Maintenance and Technical Services	Project Manager to administer Cyber Security Program for the SCADA System.	\$ 119,000	\$ 119,000	1.00	\$ 119,000
<b>Divn Subtotal</b>			<b>\$ 1,202,000</b>	<b>\$ 917,000</b>	<b>10.00</b>	<b>\$ 917,000</b>
<b>DEPARTMENT TOTAL</b>			<b>\$ 1,202,000</b>	<b>\$ 917,000</b>	<b>10.00</b>	<b>\$ 917,000</b>

**CITY OF HAMILTON**  
**2022 WATER AND WASTEWATER/STORM FEES AND CHARGES**  
**Effective January 1, 2022**

**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	\$ 0.41	\$ 0.44
16 mm	\$ 0.41	\$ 0.44
20 mm	\$ 0.41	\$ 0.44
21 mm	\$ 0.41	\$ 0.44
25 mm	\$ 1.03	\$ 1.10
38 mm	\$ 2.05	\$ 2.20
50 mm	\$ 3.28	\$ 3.52
75 mm	\$ 6.56	\$ 7.04
100 mm	\$ 10.25	\$ 11.00
150 mm	\$ 20.50	\$ 22.00
200 mm	\$ 32.80	\$ 35.20
250 mm	\$ 47.15	\$ 50.60
300 mm	\$ 69.70	\$ 74.80

**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	0.89	1.77
2	>10	1.77	1.77

**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	0.95	1.89
2	>10	1.89	1.89

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

Flat Rate Water Customers Annual Rate: \$646.05

Flat Rate Wastewater/Storm Customers Annual Rate: \$689.85

Combined Flat Rate Water & Wastewater/Storm Customers Annual Rate: \$1,335.90

## City of Hamilton - 2022 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	\$ 3.88
38	1.5	\$ 8.92
50	2	\$ 15.52
75	3	\$ 34.92
100	4	\$ 62.08
150	6	\$ 139.68
200	8	\$ 248.32
250	10	\$ 248.32
300	12	\$ 248.32

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

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

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				<b>WATER DISTRIBUTION</b>						
R84-026	510220	47220	1	<b>Water Meter Permit Fee</b> <b>Note:</b> Charged for first-time meter installations. Includes supply and installation of water meter and remote reading device by the City/meter contractor and related inspection. Approval by the Supervisor of Meter Operations is required for new installation of alternative meter types not shown below.						
			1a)	16mm (5/8"x3/4") Displacement	\$359.70	\$359.70	n	\$359.70	0.0%	Current fee achieves full cost recovery
			1b)	20mm (3/4") Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery
			1c)	21mm (3/4"x1") Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery
			1d)	25mm (1") Displacement	\$559.40	\$559.40	n	\$559.40	0.0%	Current fee achieves full cost recovery
			1e)	38mm (1.5") Displacement	\$905.08	\$951.35	n	\$951.35	5.1%	To achieve full cost recovery
			1f)	50mm (2") Displacement	\$1,218.80	\$1,218.80	n	\$1,218.80	0.0%	Current fee achieves full cost recovery
			1g)	50mm (2") Compound with strainer	\$3,316.40	\$3,316.40	n	\$3,316.40	0.0%	Current fee achieves full cost recovery
			1h)	100mm (4") Compound with strainer	\$5,304.84	\$5,304.84	n	\$5,304.84	0.0%	Current fee achieves full cost recovery
			1i)	150mm (6") Compound with strainer	\$11,495.85	\$11,495.85	n	\$11,495.85	0.0%	Current fee achieves full cost recovery
			1j)	100mm (4") Fire Service Compound	N/A	\$9,108.49	n	\$9,108.49	0.0%	New fee at full cost recovery
			1k)	150mm (6") Fire Service Compound	\$14,215.97	\$14,419.63	n	\$14,419.63	1.4%	To achieve full cost recovery
			1l)	200mm (8") Fire Service Compound	\$19,450.06	\$20,076.77	n	\$20,076.77	3.2%	To achieve full cost recovery
			1m)	250mm (10") Fire Service Compound	\$25,297.11	\$26,293.48	n	\$26,293.48	3.9%	To achieve full cost recovery
			1n)	Radio Remote Read Equipment Installation	\$217.59	\$254.24	n	\$254.24	16.8%	To achieve full cost recovery
			1o)	Radio Remote Read Equipment Installation in Chamber	N/A	\$1,001.82	n	\$1,001.82	0.0%	New fee at full cost recovery
R84-026	510220	45519	2	<b>Water Meter Removal Fee</b> <b>Note:</b> Cost to remove a meter prior to the building being demolished and/or the water service being decommissioned or abandoned. Failure to have the meter removed prior to the building being demolished will incur a meter replacement cost charge. <i>Does not include a turn water off fee, which is required and charged separately as per Section 14 of this schedule.</i>						
			2a)	16mm (5/8"x3/4") Displacement	\$131.29	\$119.60	y	\$135.15	2.9%	To achieve full cost recovery
			2b)	20mm (3/4") Displacement	\$131.29	\$119.60	y	\$135.15	2.9%	To achieve full cost recovery
			2c)	21mm (3/4"x1") Displacement	\$131.29	\$119.60	y	\$135.15	2.9%	To achieve full cost recovery
			2d)	25mm (1") Displacement	\$131.29	\$119.60	y	\$135.15	2.9%	To achieve full cost recovery
			2e)	38mm (1.5") - 250mm (10") Meters (cost depends on size, labour, and meter location)	Cost + 10% OH	Cost + 10% OH	y	Cost + 10% OH	N/A	
R84-026	510220	45519	3	<b>Water Meter Inspection Services</b> <b>Note:</b> Cost for customer requested service relating to meter investigation						
			3a)	Regular Hours Inspection	\$134.97	\$119.44	y	\$134.97	0.0%	Current fee achieves full cost recovery
			3b)	After Hours Inspection	\$177.15	\$160.23	y	\$181.06	2.2%	To achieve full cost recovery
			3c)	Same Day Inspection	N/A	\$279.63	y	\$315.98	0.0%	New fee at full cost recovery

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

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

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026	510220	45608	4	<b>Replacement Cost for Lost Meter</b> <b>Note:</b> Cost to replace a meter that has been lost, stolen or damaged. Includes meter, installation and administrative costs.						
			4a)	15mm (5/8") Displacement	\$321.43	\$284.45	y	\$321.43	0.0%	Current fee achieves full cost recovery
			4b)	16mm (5/8"x3/4") Displacement	\$321.43	\$284.45	y	\$321.43	0.0%	Current fee achieves full cost recovery
			4c)	20mm (3/4") Displacement	\$386.73	\$342.24	y	\$386.73	0.0%	Current fee achieves full cost recovery
			4d)	21mm (3/4"x1") Displacement	\$386.73	\$342.24	y	\$386.73	0.0%	Current fee achieves full cost recovery
			4e)	25mm (1") Displacement	\$460.75	\$407.74	y	\$460.75	0.0%	Current fee achieves full cost recovery
			4f)	38mm (1.5") - 250mm (10") Meters (cost depends on size, labour, and meter location)	N/A	Cost + 10% OH	y	Cost + 10% OH	0.0%	New fee at full cost recovery
R84-026	510220	45690	5	<b>Bench Testing Water Meters</b> <b>Note:</b> Cost to have a water meter tested for accuracy. If the meter tests within the accuracy standards as set out by AWWA then the property owner is responsible for the cost of the test and the replacement cost of the water meter; otherwise cost borne by the City. Fee includes removal of existing meter and installation of replacement meter.						
			5a)	15 mm & 16 mm Diameter	\$355.45	\$434.60	y	\$491.10	38.2%	To achieve full cost recovery
			5b)	16-25mm Diameter - Test where meter has been removed from service within prior 90 days	\$221.24	\$201.65	y	\$227.86	3.0%	To achieve full cost recovery
			5c)	20 mm Diameter	\$412.33	\$490.70	y	\$554.49	34.5%	To achieve full cost recovery
			5d)	25 mm Diameter	\$501.55	\$575.89	y	\$650.76	29.7%	To achieve full cost recovery
			5e)	38 mm Diameter	\$1,033.02	\$1,158.41	y	\$1,309.00	26.7%	To achieve 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	\$1,115.65	y	\$1,260.68	19.9%	To achieve full cost recovery

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**2022 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
HAMILTON WATER**

Purposes  
Regular Hours: M - F: 7:00am - 4:30pm  
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Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
10-103	510220	45644	<b>6</b>	<b>Backflow Prevention Program</b> <b>Note:</b> Costs for contractor registration fee, administration fees for processing backflow prevention test reports and survey forms.						
			6a)	Annual Program Registration Fee	\$158.06	\$144.92	y	\$163.76	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)	\$187.85	\$172.34	y	\$194.74	3.7%	To achieve full cost recovery
			6d)	Backflow Prevention Device Investigation - Regular Hours	\$164.92	\$151.60	y	\$171.31	3.9%	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	<b>7</b>	<b>Construction Water</b> <b>Note:</b> Charge for unmetered water used for construction prior to meter installation. Paid at the time of submitting building permit payment.						
			7a)	Single Residential (per lot or townhouse)	\$103.70	\$107.90	n	\$107.90	4.1%	Equal to variable water rate increase
			<b>8</b>	<b>Hydrant/Road Adaptor Fees</b> <b>Note:</b> Costs to install or remove water meter & backflow prevention device. When moving a hydrant/road adaptor from one site to another for the same customer, both removal & installation fees apply. This service requires a usage deposit and a damage deposit.						
R84-026	514330	41208	8a)	Usage Cost (Metered Hauled Water Rate/m³)	\$2.55	\$2.65	n	\$2.65	3.9%	Rate is 1.5x volumetric water rate
R84-026	514330	41209	8b)	Hydrant/Road Adaptor Connection/Disconnection Fee (Regular Hours-Fee for Both Services)	\$151.14	\$154.10	n	\$154.10	2.0%	To achieve full cost recovery
R84-026	514330	41209	8c)	Hydrant/Road Adaptor Connection/Disconnection Fee (After Hours/Emergency-Fee for Both S	\$285.53	\$291.20	n	\$291.20	2.0%	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%	Current fee achieves full cost recovery
R84-026	514330	41209	8g)	Per Diem hydrant/road adaptor rental fee after initial 7 days	\$6.13	\$6.13	n	\$6.13	0.0%	Current fee achieves full cost recovery
R84-026	514330	41209	8h)	Hydrant Adaptor Backflow Prevention Device Testing (Regular Hours)	N/A	\$95.30	n	\$95.30	0.0%	New fee at full cost recovery
R84-026	514330	41209	8i)	Hydrant Adaptor Backflow Prevention Device Testing (After Hours / Emergency)	N/A	\$160.10	n	\$160.10	0.0%	New fee at full cost recovery
R84-026	514330	47244	<b>9</b>	<b>Private Water Station Agreement Fees</b> Annual Renewal	\$408.16	\$422.82	n	\$422.82	3.6%	To achieve full cost recovery
R84-026	514330	47232	<b>10</b>	<b>Water Haulage Fees</b>						
			10a)	Annual Water Haulage Permit Fee <b>Note:</b> Annual license fee to utilize the City's public filling stations.	\$65.34	\$58.22	y	\$65.79	0.7%	To achieve full cost recovery
			10b)	Account review <b>Note:</b> Costs charged for administrative services to provide customer account information for personal or taxation purposes.	\$99.34	\$88.28	y	\$99.76	0.4%	To achieve full cost recovery
R84-026	510220	45519	<b>11</b>	<b>General Administration Fees</b>						
			11a)	General Administrative Requests (per hour)/Report Requests	\$78.83	\$70.00	y	\$79.10	0.3%	To achieve full cost recovery
			11b)	Permit Cancellation administrative fee	\$46.66	\$41.30	y	\$46.67	0.0%	Current fee achieves full cost recovery
			11c)	Permit Renewal Fee	\$46.66	\$41.30	y	\$46.67	0.0%	Current fee achieves full cost recovery
			11d)	Lead Line Replacement Loan Application Fee	\$58.67	\$51.92	y	\$58.67	0.0%	Current fee achieves full cost recovery
			11e)	Monthly AMI Manual Meter Read Fee	\$3.39	\$3.06	y	\$3.46	2.0%	To achieve full cost recovery
			11f)	Water Shut-off Admin Fee	\$25.54	\$22.60	y	\$25.54	0.0%	Current fee achieves full cost recovery
			11g)	Water Shut-off Notice on Door	\$36.07	\$31.92	y	\$36.07	0.0%	Current fee achieves full cost recovery
			11h)	AMI Consumption History Fee	\$14.45	\$13.35	y	\$15.09	4.4%	To achieve full cost recovery
			11i)	NSF Fee - Processing fee on all 'returned' payments	\$40.79	\$36.73	y	\$41.50	1.7%	Current fee achieves full cost recovery

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HAMILTON WATER**

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Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026			<b>12</b>	<b>Water Inspection Services</b> <b>Note:</b> Costs associated with various permit and inspection services related to water services for properties.						
	514330	47235	12a)	Private Water Service Repair/Replacement Inspection (Reg Hours - Max 1 Hour Total	\$108.25	\$97.65	y	\$110.34	1.9%	To achieve full cost recovery
	514330	47235	12b)	Private Water Service Repair/Replacement Inspection (After Hours /Emerg - Max 1 Hour	\$184.20	\$166.20	y	\$187.81	2.0%	To achieve full cost recovery
	514330	45690	12c)	Water Service Abandonment Inspection (Regular Hours - Max 1 Hour Total Labour)	\$96.69	\$87.05	y	\$98.37	1.7%	To achieve full cost recovery
	514330	45690	12d)	Water Service Abandonment Inspection (After Hours / Emergency - Max 1 Hour Total	\$172.63	\$155.60	y	\$175.83	1.9%	To achieve full cost recovery
	514330	45690	12e)	Water Service Inspection for Demolition (Regular Hours - Max 1 Hour Total Labour)	\$96.69	\$87.05	y	\$98.37	1.7%	To achieve full cost recovery
	514330	45690	12f)	Water Service Inspection for Demolition (After Hours / Emergency - Max 1 Hour Total	\$172.63	\$155.60	y	\$175.83	1.9%	To achieve full cost recovery
	514330	45690	12g)	Missed or Cancelled Inspection	\$69.86	\$62.95	y	\$71.13	1.8%	To achieve full cost recovery
R84-026	514330	45679	<b>13</b>	<b>Turning Water Off or On</b> <b>Note:</b> Turning water off at the curb to enable a property owner to complete internal plumbing repairs, or a private water service repair or replacement, and then turning the water back on.						
			13a)	Turning Water On/Off (Regular Hours)	\$127.40	\$130.00	n	\$130.00	2.0%	To achieve full cost recovery
			13b)	Turning Water On/Off (After Hours/Emergency)	\$214.30	\$218.85	n	\$218.85	2.1%	To achieve full cost recovery
			13c)	Turning Water On/Off During the Same Visit (Regular Hours - Max 1/2 Hour Total Labour)	\$85.54	\$87.05	n	\$87.05	1.8%	To achieve full cost recovery
			13d)	Labour)	\$117.12	\$119.45	n	\$119.45	2.0%	To achieve full cost recovery
			13e)	Non-compliance Turn Water Off	\$85.54	\$85.54	n	\$85.54	0.0%	To achieve full cost recovery
			13f)	Non-compliance Turn Water On	\$85.54	\$85.54	n	\$85.54	0.0%	To achieve full cost recovery
R84-026	514330	45636	<b>14</b>	<b>Hydrant Flow Test / Water Quality Flushing</b> <b>Note:</b> Cost to operate a City Fire Hydrant(s) for a maximum of 1 hour total labour.	\$123.52	\$96.70	y	\$109.27	-11.5%	To achieve full cost recovery
R84-026	514330	45690	<b>15</b>	<b>Water Quality/Quantity Service Calls</b> <b>Note:</b> Cost for a service call to investigate a water quality/quantity complaint and the issue resides on private property. No charge for water quality/quantity complaints related to issues originating from the City's distribution system. <u>Missed appointments will be billed the corresponding service call rate.</u>						
			15a)	Service Call (Regular Hours - Max 1 Hour Total Labour)	\$96.69	\$87.05	y	\$98.37	1.7%	To achieve full cost recovery
			15b)	Service Call (After Hours - Max 1 Hour Total Labour)	\$169.42	\$155.60	y	\$175.83	3.8%	To achieve full cost recovery
R84-026	510290	45690	<b>16</b>	<b>Hydrant Repair, Replace or Relocate</b> <b>Note:</b> Cost to repair, replace, or relocate a City Fire Hydrant including labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
R84-026	514330	45690	<b>17</b>	<b>Watermain Shutdowns</b> <b>Note:</b> Costs associated with isolating a watermain to facilitate third party work.						
			17a)	Watermain Shutdown / Recharge (Regular Hours-Maximum 1 Hour Total Labour)	\$133.06	\$135.30	n	\$135.30	1.7%	To achieve full cost recovery
			17b)	Watermain Shutdown / Recharge (After Hours / Emergency-Maximum 1 Hour Total Labour)	\$239.68	\$244.46	n	\$244.46	2.0%	To achieve full cost recovery
R84-026	510350	45408	<b>18</b>	<b>Environmental Records Search PRISM Reports related to soil contamination</b> Reports - Environmental Assessments and Master Plans	\$184.19	\$163.00	y	\$184.19	0.0%	To achieve full cost recovery
				- plus fee per page	\$18.11	\$16.02	y	\$18.11	0.0%	To achieve full cost recovery
					\$0.12	\$0.10	y	\$0.12	0.0%	To achieve full cost recovery
R84-026	514330	45690	<b>19</b>	<b>Miscellaneous Water Distribution System Repair</b> <b>Note:</b> Cost for the City to repair damage to the water distribution system caused by a third party. Costs include labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
R84-026	514330	45690	<b>20</b>	<b>Additional Labour Charges</b> <b>Note:</b> Additional labour charge for all services/calls that exceed the allotted labour time. Costs are for a single Water Distribution Operator in minimum increments of 30 minutes.						
			20a)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$26.85	\$24.10	y	\$27.23	1.4%	To achieve full cost recovery
			20b)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$40.25	\$36.20	y	\$40.91	1.6%	To achieve full cost recovery
			20c)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$23.74	\$23.74	n	\$23.74	0.0%	To achieve full cost recovery
			20d)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$35.62	\$35.62	n	\$35.62	0.0%	To achieve full cost recovery

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For Billing Purposes  
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Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
<b>COLLECTION SYSTEM INSPECTION &amp; MAINTENANCE</b>										
06-026			<b>1</b>	<b>Wastewater Inspection Services</b> <b>Note:</b> Costs associated with various permit and inspection services related to sewer laterals for properties.						
	516175	47230	1a)	Private Sewer Lateral Repair/Replacement Inspection (Regular Hours - Maximum 1 Hour Total Labour)	\$112.04	\$101.05	y	\$114.19	1.9%	To achieve full cost recovery
	516175	47230	1b)	Private Sewer Lateral Repair/Replacement Inspection (After Hours / Emergency - Maximum 1 Hour Total Labour)	\$239.93	\$216.05	y	\$244.14	1.8%	To achieve full cost recovery
	516175	45690	1c)	Missed or Cancelled Inspection	\$80.07	\$72.30	y	\$81.70	2.0%	To achieve full cost recovery
	516175	45690	1d)	Mainline Sewer Inspection <b>Note:</b> CCTV inspection of mainline sewers (storm, sanitary or combined). Cost based on linear meter inspection.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
06-026	516175	45690	<b>2</b>	<b>Sewer Related Service Calls</b> <b>Note:</b> Cost for a service call to investigate a sewer related complaint and the issue resides on private property. No charge for sewer complaints related to issues originating from the City's sewer system. <u>Missed appointments will be billed the corresponding service call</u>						
			2a)	Service Call (Regular Hours - Maximum 1 Hour Total Labour)	\$99.61	\$90.50	y	\$102.27	2.7%	To achieve full cost recovery
			2b)	Service Call (After Hours - Maximum 1 Hour Total Labour)	\$202.64	\$184.50	y	\$208.49	2.9%	To achieve full cost recovery
06-026	516175	45690	<b>3</b>	<b>Sewer Lateral Cleaning and Investigation Fees</b> <b>Note:</b> When a property owner qualifies for the Sewer Lateral Management Program and chooses to hire their own Plumbing Contractor, these prices represent the maximum amounts that will be reimbursed to the property owner for the sewer lateral cleaning and investigation services performed by the independent Plumbing Contractor						
			3a)	Complete Sewer Lateral Investigation - Regular Hours	\$467.86	\$422.30	y	\$477.20	2.0%	To achieve full cost recovery
			3b)	Complete Sewer Lateral Investigation - After Hours	\$516.78	\$466.50	y	\$527.15	2.0%	To achieve full cost recovery
			3c)	Partial Sewer Lateral Cleaning - Regular Hours	\$152.89	\$138.00	y	\$155.94	2.0%	To achieve full cost recovery
			3d)	Partial Sewer Lateral Cleaning - After Hours	\$214.05	\$193.20	y	\$218.32	2.0%	To achieve full cost recovery
			3e)	Abandoned Sewer Lateral Investigation - Regular Hours	\$244.63	\$220.80	y	\$249.50	2.0%	To achieve full cost recovery
			3f)	Abandoned Sewer Lateral Investigation - After Hours	\$305.79	\$276.00	y	\$311.88	2.0%	To achieve full cost recovery
06-026	516175	45690	<b>4</b>	<b>Miscellaneous Wastewater Collection System Repair</b> <b>Note:</b> Cost for the City to repair damage to the wastewater collection system caused by a third party. Costs include labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
06-026	516175	45690	<b>5</b>	<b>Additional Labour Charges</b> <b>Note:</b> Additional labour charge for all services/calls that exceed the allotted labour time. Costs are for a single Wastewater Collection Operator or Contract Inspector in minimum increments of 30 minutes.						
			5a)	1/2 Hour Additional Labour (Regular Hours) - Wastewater Collection	\$25.75	\$23.50	y	\$26.56	3.1%	To achieve full cost recovery
			5b)	1/2 Hour Additional Labour (After Hours) - Wastewater Collection	\$38.65	\$35.25	y	\$39.83	3.1%	To achieve full cost recovery

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<b>LABORATORY SERVICES</b>									
510250	45519		<b>Inorganic Tests:</b>						
		<b>1</b>	<b>Solids</b>						
		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	\$32.10	y	\$36.27	0.3%	To achieve full cost recovery
		<b>2</b>	<b>Skalar</b>						
		2a)	Total Cyanide	\$41.70	\$37.40	y	\$42.26	1.4%	To achieve full cost recovery
		2b)	Phenolics	\$37.29	\$33.60	y	\$37.97	1.8%	To achieve full cost recovery
		2c)	Total Kjeldhal Nitrogen (TKN)	\$35.48	\$32.00	y	\$36.16	1.9%	To achieve full cost recovery
		2d)	Ammonia	\$39.10	\$34.60	y	\$39.10	0.0%	Current fee achieves full cost recovery
		2e)	Dissolved Organic Carbon	\$41.81	\$37.60	y	\$42.49	1.6%	To achieve full cost recovery
		2f)	Total Organic Carbon	\$41.81	\$37.60	y	\$42.49	1.6%	To achieve full cost recovery
		2g)	Reactive Silica	\$33.90	\$30.60	y	\$34.58	2.0%	To achieve full cost recovery
510250	45519	<b>3</b>	<b>Ion Chromatography (IC Scan)</b>	\$56.95	\$50.40	y	\$56.95	0.0%	Current fee achieves full cost recovery
510250	45519	<b>4</b>	<b>PC Titrate</b>						
		4a)	pH	\$18.65	\$16.50	y	\$18.65	0.0%	Current fee achieves full cost recovery
		4b)	Alkalinity	\$18.53	\$16.70	y	\$18.87	1.8%	To achieve 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	\$29.83	\$26.80	y	\$30.28	1.5%	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	\$28.40	y	\$32.09	6.4%	To achieve 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
			<b>Microbiology Tests:</b>						
510250	45519	13	Total Coliform/E coli - Presence/Absence	\$29.72	\$26.80	y	\$30.28	1.9%	To achieve full cost recovery
510250	45519	14	Total Coliform/E coli - MPN	\$32.43	\$29.20	y	\$33.00	1.7%	To achieve full cost recovery
510250	45519	15	EC - MPN	\$32.43	\$29.20	y	\$33.00	1.7%	To achieve full cost recovery
510250	45519	16	Heterotrophic Plate Count	\$30.40	\$27.40	y	\$30.96	1.9%	To achieve full cost recovery
510250	45519	17	Micro Examination	\$162.61	\$146.50	y	\$165.55	1.8%	To achieve full cost recovery
510250	45519	18	Microcystin	\$581.95	\$515.00	y	\$581.95	0.0%	Current fee achieves full cost recovery
			<b>Metals:</b>						
510250	45519	18	<b>ICP OES</b>						
		18a)	ICP OES Scan (Wastewater)	\$68.14	\$61.10	y	\$69.04	1.3%	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	<b>ICP MS</b>						
		19a)	ICP MS Scan	\$68.14	\$61.10	y	\$69.04	1.3%	To achieve full cost recovery
510250	45519	20	<b>AA</b>						
		20a)	Mercury	\$51.64	\$45.70	y	\$51.64	0.0%	Current fee achieves full cost recovery
510250	45519	21	<b>Organics</b>						
		21a)	Caffeine	\$147.92	\$132.30	y	\$149.50	1.1%	To achieve full cost recovery
510250	45519	22	<b>Additional Fees</b>						
		22a)	Weekend surcharge	\$113.00	\$100.00	y	\$113.00	0.0%	Current fee achieves full cost recovery

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

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

**2022 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				<b>ENVIRONMENTAL MONITORING &amp; ENFORCEMENT</b> To Regulate the Discharge of any Matter into the Sanitary, Combined, and Storm Sewer Systems.						
14-090	516175	47232	1	<b>Annual Permit to Discharge Hauled Sewage</b> <b>Note:</b> Cost for administration and processing of annual permits required to haul sewage within Hamilton	\$329.00	\$335.00	n	\$335.00	1.8%	To achieve full cost recovery
			2	<b>Discharge fees for Hauled Sewage generated:</b> <b>Inside the City - Compliant</b> <b>Note:</b> Cost per truck full of sewage containing materials within Sewer Use By-law limit up to 1000 imperial gallons (4.54 m3) or any part thereof	\$51.15	\$52.18	n	\$52.18	2.0%	To achieve full cost recovery
14-090	516175	41314	2a)	greater than 1000 (4.54 m3) but less than or equal to 3500 Imperial gallons (15.9m3)	\$51.15	\$52.18	n	\$52.18	2.0%	To achieve full cost recovery
14-090	516175	41314	2b)	greater than 3500 (15.9 m3) but less than or equal to 5000 Imperial gallons (22.7 m3)	\$102.30	\$104.35	n	\$104.35	2.0%	To achieve full cost recovery
14-090	516175	41314	2c)	greater than 5000 (22.7 m3) but less than or equal to 8000 Imperial gallons (36.3 m3)	\$153.45	\$156.53	n	\$156.53	2.0%	To achieve full cost recovery
14-090	516175	41314	2d)	greater than 8000 (36.3 m3) but less than or equal to 10000 Imperial gallons (45.43 m3)	\$204.60	\$208.70	n	\$208.70	2.0%	To achieve full cost recovery
			3	<b>Discharge fees for Hauled Sewage generated:</b> <b>Inside the City - Non-Compliant</b> <b>Note:</b> Cost per truck full of sewage containing materials that exceed one or more Sewer Use By law limits						
14-090	516175	41314	3a)	up to 1000 imperial gallons (4.54 m3) or any part thereof	\$51.15	\$52.18	n	\$52.18	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)	\$102.30	\$104.35	n	\$104.35	2.0%	To achieve full cost recovery
14-090	516175	41314	3c)	greater than 3500 (15.9 m3) but less than or equal to 5000 Imperial gallons (22.7 m3)	\$153.45	\$156.53	n	\$156.53	2.0%	To achieve full cost recovery
14-090	516175	41314	3d)	greater than 5000 (22.7 m3) but less than or equal to 8000 Imperial gallons (36.3 m3)	\$255.75	\$260.88	n	\$260.88	2.0%	To achieve full cost recovery
14-090	516175	41314	3e)	greater than 8000 (36.3 m3) but less than or equal to 10000 Imperial gallons (45.43 m3)	\$306.90	\$313.06	n	\$313.06	2.0%	To achieve full cost recovery
14-090	516175	41314	4	<b>Holding Tanks for Recreational Vehicles</b> <b>Note:</b> Cost for Recreational Vehicles (RV's) to dump sewer waste at the Mountain Transfer Station	\$8.50	\$8.50	n	\$8.50	0.0%	Current fee achieves full cost recovery
			5	<b>Overstrength Discharge Fees</b> <b>Note:</b> Cost per kilogram of each specified parameter that is in excess of Sewer Use By-law limits, and subject to a Sewer Discharge Permit						
14-090	516080	41315	5a)	Biochemical Oxygen Demand (charge per kg)	\$0.80	\$0.81	n	\$0.81	1.8%	To achieve full cost recovery
14-090	516080	41315	5b)	Total suspended solids (charge per kg)	\$0.64	\$0.66	n	\$0.66	2.7%	To achieve full cost recovery
14-090	516080	41315	5c)	Oil & grease (animal/vegetable) (charge per kg)	\$0.45	\$0.46	n	\$0.46	2.2%	To achieve full cost recovery
14-090	516080	41315	5d)	Total Kjeldahl Nitrogen (charge per kg)	\$1.02	\$1.04	n	\$1.04	2.0%	To achieve full cost recovery
14-090	516080	41315	5e)	Total Phosphorus (charge per kg)	\$1.89	\$2.20	n	\$2.20	16.4%	To achieve full cost recovery
14-090	516080	41317	6	<b>Surcharge Discharge Fee (charge per m3)</b>	\$1.82	\$1.89	n	\$1.89	3.8%	Equal to variable wastewater rate increase

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

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**2022 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
			7	<b>Application Fees for Sewer Discharge Permits</b> <b>NOTE:</b> Fee to be paid upon application for Sewer Discharge Permit						
14-090	510260	45519	7a)	Application Fee	\$725.38	\$688.00	y	\$777.44	7.2%	To achieve full cost recovery
14-090	510260	45519	7b)	Wastewater Characterization deposit (optional)	\$500.00	\$500.00	n	\$500.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45519	7c)	Amendment Fee (all permit types)	\$340.56	\$319.46	y	\$360.99	6.0%	To achieve full cost recovery
			8	<b>Administrative Fees for Sewer Discharge Permits</b> <b>Note:</b> Multiple permit holders pay the higher administrative fee (for example, if the permit holder has both an Overstrength Discharge Permit and a Compliance Program Permit, they will pay \$810.00 per quarter)						
14-090	510260	45532	8a)	Overstrength Discharge Permit (charged quarterly)	\$435.00	\$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	\$1,077.00	n	\$1,077.00	0.6%	To achieve full cost recovery
14-090	510260	45532	8e)	Conditional Discharge Permit (charged quarterly)	\$1,071.00	\$1,077.00	n	\$1,077.00	0.6%	To achieve full cost recovery
14-090	510260	45519	9	<b>Information Requests</b> <b>Note:</b> Fee per property for records search related to Sewer Use By-law historical violations	\$173.88	\$195.73	y	\$221.17	27.2%	To achieve full cost recovery
14-090	510260	45532	10	<b>Wastewater Sampling (optional)</b> <b>Note:</b> Per unit costs to conduct wastewater sampling to determine permit conditions and limits						
			10a)	Wastewater Sampling Vehicle Fee (per kilometer)	\$1.39	\$1.25	y	\$1.41	1.6%	To achieve full cost recovery
			10b)	Wastewater Sampling Equipment Fee (per day)	\$44.84	\$40.47	y	\$45.73	2.0%	To achieve full cost recovery
			10c)	Wastewater Sampling Technician Fee (per hour) Mon - Fr	\$57.22	\$51.45	y	\$58.14	1.6%	To achieve full cost recovery
			10d)	Wastewater Sampling Technician Fee (per hour) Sa	\$85.83	\$77.17	y	\$87.20	1.6%	To achieve full cost recovery
			10e)	Wastewater Sampling Technician Fee (per hour) Sur	\$114.45	\$102.90	y	\$116.28	1.6%	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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**2022 PROPOSED USER FEES AND CHARGES****PUBLIC WORKS**  
**HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				<b>ENVIRONMENTAL MONITORING &amp; ENFORCEMENT Fees related to the Wastewater Abatement Program</b>						
03-272	510260	45532	1	Application Fee (plus cost recovery for peer review if required)	\$431.65	\$437.00	y	\$493.81	14.4%	To achieve full cost recovery
03-272	510260	45532	2	Annual Administration Fee	\$859.04	\$815.00	y	\$920.95	7.2%	To achieve full cost recovery

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**SOURCE OF CAPITAL FINANCING  
2022 to 2031 RATE PROGRAM CAPITAL BUDGET  
\$(000'S)**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022 to 2031
<b>TOTAL RATE PROGRAM</b>											
<b>Capital Program</b>	<b>310,436</b>	<b>223,117</b>	<b>291,280</b>	<b>274,455</b>	<b>321,811</b>	<b>319,784</b>	<b>311,325</b>	<b>224,021</b>	<b>207,494</b>	<b>214,808</b>	<b>2,698,531</b>
<b>Source of Funding</b>											
Subsidy/Other Revenue	7,573	75	6,799	20,375	6,015	75	75	75	75	75	41,212
Development Charges	84,527	58,116	75,359	54,752	140,458	123,264	107,446	5,944	8,724	8,051	666,638
Reserves & Other Internal Sources	44,148	9,640	5,640	640	640	640	640	640	640	640	63,908
Contribution from Operating	125,089	139,066	146,062	155,458	170,468	181,055	191,314	200,862	198,055	206,042	1,713,473
External Debt	49,100	16,220	57,420	43,230	4,230	14,750	11,850	16,500	-	-	213,300
<b>Total</b>	<b>310,436</b>	<b>223,117</b>	<b>291,280</b>	<b>274,455</b>	<b>321,811</b>	<b>319,784</b>	<b>311,325</b>	<b>224,021</b>	<b>207,494</b>	<b>214,808</b>	<b>2,698,531</b>

**CITY OF HAMILTON  
2022 - 2031 WATER / WASTEWATER / STORM CAPITAL FINANCING PLAN  
(\$'s)**

	<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>2031</u>	<u>2022 - 2031</u>
<b>NET EXPENDITURES FORECAST</b>												
WASTEWATER (NET)	86,083,000	105,784,138	54,946,470	74,211,470	79,711,470	77,101,470	78,996,470	82,656,470	100,186,470	90,106,470	100,696,470	844,397,368
WATER (NET)	69,798,000	56,639,500	80,700,000	104,925,500	104,721,500	87,332,000	76,204,000	79,393,000	77,821,000	75,734,000	71,990,550	815,461,050
STORM (NET)	19,287,000	11,765,000	19,640,000	24,345,000	14,255,000	10,265,000	40,605,000	41,115,000	39,355,000	32,215,000	33,355,000	266,915,000
<b>TOTAL NET EXPENDITURES</b>	<b>175,168,000</b>	<b>174,188,638</b>	<b>155,286,470</b>	<b>203,481,970</b>	<b>198,687,970</b>	<b>174,698,470</b>	<b>195,805,470</b>	<b>203,164,470</b>	<b>217,362,470</b>	<b>198,055,470</b>	<b>206,042,020</b>	<b>1,926,773,418</b>
<b>SOURCE OF FINANCING</b>												
DEBT ISSUES	48,000,000	49,100,000	16,220,000	57,420,000	43,230,000	4,230,000	14,750,000	11,850,000	16,500,000	0	0	213,300,000
TRANSFER FROM OPERATING	125,368,663	125,088,638	139,066,470	146,061,970	155,457,970	170,468,470	181,055,470	191,314,470	200,862,470	198,055,470	206,042,020	1,713,473,418
<b>TOTAL CAPITAL FINANCING</b>	<b>173,368,663</b>	<b>174,188,638</b>	<b>155,286,470</b>	<b>203,481,970</b>	<b>198,687,970</b>	<b>174,698,470</b>	<b>195,805,470</b>	<b>203,164,470</b>	<b>217,362,470</b>	<b>198,055,470</b>	<b>206,042,020</b>	<b>1,926,773,418</b>
<b>OPERATING BUDGET IMPACT</b>												
TRANSFER FROM OPERATING	125,368,663	125,088,638	139,066,470	146,061,970	155,457,970	170,468,470	181,055,470	191,314,470	200,862,470	198,055,470	206,042,020	1,713,473,418
DC EXEMPTION FUNDING	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	90,000,000
DEBT CHARGES (NET)	22,391,526	22,349,172	28,194,548	34,379,757	41,687,306	45,024,078	44,019,392	42,542,948	43,434,587	41,350,652	40,897,791	383,880,231
<b>TOTAL CAPITAL FINANCING COSTS</b>	<b>156,760,189</b>	<b>156,437,810</b>	<b>176,261,018</b>	<b>189,441,727</b>	<b>206,145,276</b>	<b>224,492,548</b>	<b>234,074,862</b>	<b>242,857,418</b>	<b>253,297,057</b>	<b>248,406,122</b>	<b>255,939,811</b>	<b>2,187,353,649</b>

CITY OF HAMILTON 2022-2031 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
	\$	\$	\$	\$	\$	\$	\$
2022	310,436	310,436	7,573	84,527	44,148	125,089	49,100
2023	223,117	223,117	75	58,116	9,640	139,066	16,220
2024	291,280	284,557	75	75,359	5,640	146,062	57,420
2025-2031	1,617,698	1,847,458	525	448,637	4,480	1,303,256	90,560
<b>TOTAL</b>	<b>2,442,531</b>	<b>2,665,568</b>	<b>8,248</b>	<b>666,638</b>	<b>63,908</b>	<b>1,713,473</b>	<b>213,300</b>



**SOURCE OF CAPITAL FINANCING  
2022 to 2031 RATE PROGRAM CAPITAL BUDGET  
\$(000'S)**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022 to 2031
<b>WATER</b>											
<b>Capital Program</b>	<b>105,271</b>	<b>111,222</b>	<b>148,240</b>	<b>157,650</b>	<b>125,608</b>	<b>99,686</b>	<b>86,707</b>	<b>78,661</b>	<b>80,434</b>	<b>75,158</b>	<b>1,068,637</b>
<b>Source of Funding</b>											
Subsidy/Other Revenue	3,498	-	2,004	8,100	-	-	-	-	-	-	13,602
Development Charges	26,127	29,882	40,671	44,189	37,636	22,842	6,674	200	4,060	2,527	214,807
Reserves & Other Internal Sources	19,007	640	640	640	640	640	640	640	640	640	24,767
Contribution from Operating	39,540	72,200	84,926	94,722	87,332	70,004	74,393	77,821	75,734	71,991	748,661
External Debt	17,100	8,500	20,000	10,000	-	6,200	5,000	-	-	-	66,800
<b>Total</b>	<b>105,271</b>	<b>111,222</b>	<b>148,240</b>	<b>157,650</b>	<b>125,608</b>	<b>99,686</b>	<b>86,707</b>	<b>78,661</b>	<b>80,434</b>	<b>75,158</b>	<b>1,068,637</b>

**City of Hamilton**  
**Water System**  
**2022 Capital Budget Project List**  
**(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5142171328	Southcote - Garner to Highway 403 Bridge	3,040,000						1,520,000	-	1,520,000
	5142280280	First Road West Watermain - Bedrock to Glover Mountain	830,000		498,000				332,000	-	
	5142280281	Dickenson Road West Watermain - Garth Street Extension to 870m easterly	510,000						510,000	-	
<b>Coordinated - Network Extension Total</b>			<b>4,380,000</b>		<b>498,000</b>				<b>1,520,000</b>	<b>-</b>	<b>1,520,000</b>
Coordinated - Other	5142160501	Watermain Rehabilitation/Replacement Coordinated with Development	1,000,000						1,000,000	1,000,000	
	5142299999	Rates Projects Included in Tax Budget - NOT TO BE SET UP IN PEOPLESOFT	2,320,000						2,320,000	2,320,000	
<b>Coordinated - Other Total</b>			<b>3,320,000</b>						<b>3,320,000</b>	<b>3,320,000</b>	
Coordinated - Replacement	5142171303	Marion - Longwood to Dromore	440,000						440,000	440,000	
	5142271305	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,000,000						1,000,000		1,000,000
	5142271312	Strathearne - Main to Britannia	900,000						900,000		900,000
	5142271306	Kelvin - Old Orchard to south end	100,000						100,000	100,000	
	5142271308	Concession / Mountain Brow - Upper Gage to Oakcrest	2,200,000						2,200,000		2,200,000
	5142271296	Governor's - Main to Ogilvie (Bridge 296)	400,000						400,000	400,000	
	5142271022	Burlington - James to Ferguson	1,200,000						1,200,000		1,200,000
	5142271214	Fairfield - Barton to Britannia	500,000						500,000		500,000
5142271325	CCBF - Corktown Neighbourhood	400,000					400,000	-			
<b>Coordinated - Replacement Total</b>			<b>7,140,000</b>					<b>400,000</b>	<b>6,740,000</b>	<b>940,000</b>	<b>5,800,000</b>
Coordinated Replacement (50/50)	5142170000	Rates Share of Road Reconstruction - NOT TO BE SET UP IN PEOPLESOFT	4,130,000						4,130,000	4,130,000	
<b>Coordinated Replacement (50/50) Total</b>			<b>4,130,000</b>						<b>4,130,000</b>	<b>4,130,000</b>	
Demolition / Disposal	5142067420	St. Joseph's Tank Pulsation Dampener (HD002STK)	440,000						440,000	440,000	
<b>Demolition / Disposal Total</b>			<b>440,000</b>						<b>440,000</b>	<b>440,000</b>	
Enhancement	5142166608	Lynden Water System - Phase 2 Treatment	110,000						110,000	110,000	
<b>Enhancement Total</b>			<b>110,000</b>						<b>110,000</b>	<b>110,000</b>	
Expansion / Extension	5141996951	Binbrook Feedermain via Fletcher (W-30)	2,530,000			2,530,000			-		
	5142260280	Upper Centennial Watermain Extension	500,000						500,000		500,000
<b>Expansion / Extension Total</b>			<b>3,030,000</b>			<b>2,530,000</b>			<b>500,000</b>		<b>500,000</b>
Feasibility Plans / EA's/ Studies	5141855777	Water infrastructure Analysis - Growth and Economic Opportunities	330,000						330,000	330,000	
	5142096520	Garner Road Trunk Watermain - Southcote to Wilson (W-09)	13,550,000			13,550,000			-		
	5142155010	Water Systems Planning Program	600,000						600,000	600,000	
	5142155022	Engineering Consultant Watermain Projects	400,000						400,000	400,000	
	5142155247	Alterations to the Drinking Water System	150,000						150,000	150,000	
	5142155556	Mapping Update Program	40,000						40,000	40,000	
	5142157545	Water - Computer Model	150,000						150,000	150,000	
	5142257000	Vertical Asset Management Program	280,000						280,000	280,000	
	5142255264	City-Wide Water Master Plan	280,000			280,000			-		
	5142255280	Airport Employment Growth District (AEGD) Water, Wastewater and Stormwater Master Plan Update	700,000			700,000			-		
	5142251112	Inventory Bar Coding System, Equipment & Consulting	200,000						200,000	200,000	
	5142257800	Water Facility Asset Management Implementation Plan	100,000						100,000	100,000	
	5142255851	Water Efficiency Plan/Program	115,000						115,000	115,000	
5142267510	Water System Studies & Continual Improvement Initiatives	1,100,000						1,100,000	1,100,000		
<b>Feasibility Plans / EA's/ Studies Total</b>			<b>17,995,000</b>			<b>14,530,000</b>			<b>3,465,000</b>	<b>3,465,000</b>	
Licenses	5142162073	Field Data Systems Program	210,000					100,000	110,000	110,000	
<b>Licenses Total</b>			<b>210,000</b>					<b>100,000</b>	<b>110,000</b>	<b>110,000</b>	

**City of Hamilton  
Water System  
2022 Capital Budget Project List  
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
New	5141495551	PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	5,500,000			5,500,000			-		
	5141767650	New Greensville Communal Well	150,000						150,000	-	150,000
	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)	900,000						900,000	-	900,000
	5142161502	Water Meter - Installation/Replacement/Repair - General Maintenance	4,270,000					640,000	3,630,000	3,630,000	
	5142151110	Fleet Additions	1,162,000					1,162,000	-	-	
	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station	550,000						550,000	-	550,000
	5142467224	New PD2 Water Pumping Station (CASH FLOWED)	2,650,000						2,650,000		2,650,000
<b>New Total</b>			<b>15,182,000</b>			<b>5,500,000</b>	<b>640,000</b>	<b>1,162,000</b>	<b>7,880,000</b>	<b>3,630,000</b>	<b>4,250,000</b>
Rehabilitation / Renovation	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	2,470,000						2,470,000	-	2,470,000
	5141760754	Kenilworth Transmission Watermain Renewal	600,000						600,000	600,000	
	5141761777	Beach Trunkmain Rehab	1,500,000						1,500,000	1,500,000	
	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	550,000			412,500			137,500	137,500	-
	5141867651	HD007 Highland Rd Reservoir Upgrades	170,000						170,000	170,000	
	5141967375	HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades	330,000						330,000	330,000	
	5142067450	Lee Smith Reservoir (HDR00) Upgrades	170,000						170,000	170,000	
	5142111101	Road Cut Restoration Program	7,965,000					5,400,000	2,565,000	-	-
	5142157626	Critical Watermain Inspection Program	731,000						131,000	600,000	600,000
	5142160072	Watermain Structural Lining	5,300,000					5,300,000	-	-	-
	5142166713	Water Maintenance Capital Program	1,000,000						1,000,000	1,000,000	
	5142169075	City Environmental Lab Improvements Program	340,000						340,000	340,000	
	5142166110	Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)	1,378,000			627,000			751,000	11,000	740,000
	5142167420	HDR18 Glancaster Reservoir Ugrades	440,000						440,000	-	440,000
	5142167421	HDR11 Woodley Lane Reservoir Upgrades	170,000						170,000	170,000	
	5142261741	Resetting or Adjusting of Water Utility Structures	250,000						250,000	250,000	
	5142261240	Woodward Treatment Plant Filter Building - Flume Watermain Lining	2,000,000						2,000,000	2,000,000	
	5142267585	Diesel Fuel Storage Compliance Upgrades	500,000						500,000	500,000	
	5141966420	Woodward WTP Chlorine Chemical Building	1,380,000						1,380,000		1,380,000
	5142266712	Water Maintenance - Rebuild, Replacement and New Capital	400,000						400,000	400,000	
5142266220	Water Treatment Plant - Clearwells Concrete Restoration Upgrades	600,000						600,000	600,000		
5142266320	Woodward Water Treatment Plant - Low Lift Pumping Station Intake Repairs	830,000						830,000	830,000		
<b>Rehabilitation / Renovation Total</b>			<b>29,074,000</b>			<b>1,039,500</b>	<b>10,700,000</b>	<b>2,696,000</b>	<b>14,638,500</b>	<b>9,608,500</b>	<b>5,030,000</b>
Replacement	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning	140,000						140,000	140,000	
	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	220,000			165,000			55,000	55,000	
	5141966151	SCADA Maintenance Program	150,000						150,000	150,000	
	5142066310	WTP Pre-Treatment Isolation Valves	550,000						550,000	550,000	
	5142149555	QA-QC Service Contract Program	290,000					140,000	150,000	150,000	
	5142160080	Valve Replacement Program	3,780,000					1,170,000	2,610,000	2,610,000	
	5142160577	Metallic Watermain Condition Assessment Program	815,000					185,000	630,000	630,000	
	5142160711	PW Capital Water Consumption Program	250,000						250,000	250,000	
	5142160750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	2,850,000					1,300,000	1,550,000	1,550,000	
	5142162078	Substandard Water Service Replacement Program	2,350,000						2,350,000	2,350,000	
	5142271318	Eastmount Neighbourhood - Water	210,000					50,000	160,000	160,000	
	5142260081	Large Valve Replacement - Nash	2,000,000		2,000,000				-	-	
5142260082	Large Valve Replacement - Longwood and Glenside	1,000,000		1,000,000				-	-		
<b>Replacement Total</b>			<b>14,605,000</b>	<b>3,000,000</b>		<b>165,000</b>	<b>1,300,000</b>	<b>1,545,000</b>	<b>8,595,000</b>	<b>8,595,000</b>	

**City of Hamilton  
Water System  
2022 Capital Budget Project List  
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Safety/ Security	5142266871	Hamilton Water Capital Security Plan	1,030,000						1,030,000	1,030,000	
	5142266351	Woodward SCADA OT (Operating Technology) Security Program	125,000						125,000	125,000	
Safety/ Security Total			1,155,000						1,155,000	1,155,000	
Staffing Costs	5142101099	Engineering Services Staffing Costs - Water	4,500,000					464,000	4,036,000	4,036,000	
Staffing Costs Total			4,500,000					464,000	4,036,000	4,036,000	
Grand Total			105,271,000	3,000,000	498,000	26,126,500	12,640,000	6,367,000	56,639,500	39,539,500	17,100,000

**CITY OF HAMILTON  
WATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Coordinated - Network Extension	5142171328	Southcote - Garner to Highway 403 Bridge	-	(80,000)	3,040,000	1,520,000	-	-	-	-	-	-	-	-	3,040,000	1,440,000	2021	2022
	5142280280	First Road West Watermain - Bedrock to Glover Mountain	-	-	830,000	-	-	-	-	-	-	-	-	-	830,000	-	2022	2022
	5142280281	Dickenson Road West Watermain - Garth Street Extension to 870m easterly	-	-	510,000	-	-	-	-	-	-	-	-	-	510,000	-	2022	2022
	5142380320	RHBP - Twenty Rd Extension - Glover to Trinity Church	-	-	-	-	565,000	-	-	-	-	-	-	-	565,000	-	2023	2023
	5142580580	RHBP - Nebo - 900m s/o Twenty to Dickenson	-	-	-	-	-	-	-	-	400,000	-	-	-	400,000	-	2021	2039
	5142671108	Rymal - Glancaster to Upper Paradise	-	-	-	-	-	-	-	-	-	-	340,000	340,000	340,000	340,000	2026	2026
	5142880884	RHBP - Dickenson - Nebo to 800m e/o Nebo	-	-	-	-	-	-	-	-	-	-	900,000	-	900,000	-	2028	2028
	5143080388	Lewis - Barton to Hwy 8	-	-	-	-	-	-	-	-	-	-	500,000	-	500,000	-	2023	2030
	Coordinated - Network Extension Total			-	(80,000)	4,380,000	1,520,000	565,000	-	-	-	400,000	-	1,740,000	340,000	7,085,000	1,780,000	
Coordinated - Other	5142160501	Watermain Rehabilitation/Replacement Coordinated with Development	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	6,000,000	6,000,000	11,000,000	11,000,000	2021	2046
	5142299999	Rates Projects Included in Tax Budget - NOT TO BE SET UP IN PEOPLESOFT	-	-	2,320,000	2,320,000	2,120,000	2,120,000	1,410,000	1,410,000	360,000	360,000	4,410,000	4,410,000	10,620,000	10,620,000	2022	2046
Coordinated - Other Total			1,000,000	1,000,000	3,320,000	3,320,000	3,120,000	3,120,000	2,410,000	2,410,000	1,360,000	1,360,000	10,410,000	10,410,000	21,620,000	21,620,000		
Coordinated - Replacement	5142171301	Watermain Replacement Coordinated with Roads	-	-	-	-	-	-	-	-	-	-	3,400,000	3,400,000	3,400,000	3,400,000	2027	2046
	5142171303	Marion - Longwood to Dromore	-	-	440,000	440,000	-	-	-	-	-	-	-	-	440,000	440,000	2021	2022
	5142271022	Burlington - James to Ferguson	-	-	1,200,000	1,200,000	-	-	-	-	-	-	-	-	1,200,000	1,200,000	2022	2022
	5142271214	Fairfield - Barton to Britannia	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2022	2022
	5142271296	Governor's - Main to Ogilvie (Bridge 296)	-	-	400,000	400,000	-	-	-	-	-	-	-	-	400,000	400,000	2022	2022
	5142271305	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	-	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	1,000,000	1,000,000	2022	2022
	5142271306	Kelvin - Old Orchard to south end	-	-	100,000	100,000	-	-	-	-	-	-	-	-	100,000	100,000	2022	2022
	5142271308	Concession / Mountain Brow - Upper Gage to Oakcrest	-	-	2,200,000	2,200,000	-	-	-	-	-	-	-	-	2,200,000	2,200,000	2022	2022
	5142271312	Strathearne - Main to Britannia	-	-	900,000	900,000	-	-	-	-	-	-	-	-	900,000	900,000	2022	2022
	5142271325	CCBF - Corktown Neighbourhood	-	-	400,000	-	-	-	-	-	-	-	-	-	400,000	-	2022	2022
	5142371304	Hatt & Bond - King to Market	-	-	-	-	800,000	800,000	-	-	-	-	-	-	800,000	800,000	2021	2023
	5142371307	Duke - Hess to west end & Robinson - Queen to west end	-	-	-	-	50,000	50,000	300,000	300,000	-	-	-	-	350,000	350,000	2023	2024
	5142371322	Barton - Sherman to Ottawa	-	-	-	-	10,000,000	10,000,000	-	-	-	-	-	-	10,000,000	10,000,000	2023	2023
	5142371327	Upper Centennial - Rymal to Mud	-	-	-	-	100,000	100,000	6,000,000	6,000,000	-	-	-	-	6,100,000	6,100,000	2023	2024
	5142471106	Rymal - Upper Ottawa to Dartnall	-	-	-	-	-	-	1,200,000	1,200,000	-	-	-	-	1,200,000	1,200,000	2024	2024
	5142471202	Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	-	-	-	-	1,550,000	1,550,000	-	-	-	-	1,550,000	1,550,000	2024	2024
	5142471304	Ferguson/Foster/Walnut/Patrick	-	-	-	-	-	-	1,710,000	1,710,000	-	-	-	-	1,710,000	1,710,000	2022	2024
	5142471308	Scenic - Chateau Crt to Upper Paradise	-	-	-	-	-	-	1,750,000	1,750,000	-	-	-	-	1,750,000	1,750,000	2024	2024
	5142471314	Pinelands / Teal / Garden / Community / Greensfield	-	-	-	-	-	-	1,830,000	1,830,000	-	-	-	-	1,830,000	1,830,000	2024	2024
	5142471315	Strathearne - Brampton to gate at north end	-	-	-	-	-	-	820,000	820,000	-	-	-	-	820,000	820,000	2024	2024
	5142571106	Rymal - Upper Gage to Upper Ottawa	-	-	-	-	-	-	-	-	950,000	950,000	-	-	950,000	950,000	2025	2025
	5142571201	Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	-	-	-	-	-	1,400,000	1,400,000	-	-	1,400,000	1,400,000	2025	2025
	5142571303	Burlington & Industrial - Birch to Gage	-	-	-	-	-	-	-	-	2,820,000	2,820,000	-	-	2,820,000	2,820,000	2025	2025
	5142571305	Upper James - Mohawk to Fennell	-	-	-	-	-	-	-	-	3,070,000	3,070,000	-	-	3,070,000	3,070,000	2025	2025
	5142571306	Barton - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	4,700,000	4,700,000	-	-	4,700,000	4,700,000	2025	2025
	5142671103	Rymal - Upper Sherman to Upper Gage	-	-	-	-	-	-	-	-	-	-	1,500,000	1,500,000	1,500,000	1,500,000	2026	2026
	5142671305	Dundurn - CPR bridge (s/o Main St) to King	-	-	-	-	-	-	-	-	-	-	430,000	430,000	430,000	430,000	2026	2026
	5142671307	Hatt - Market to east end & York / Kerr	-	-	-	-	-	-	-	-	-	-	1,060,000	1,060,000	1,060,000	1,060,000	2026	2026
	5142671309	Wilson - Wentworth to Sherman	-	-	-	-	-	-	-	-	-	-	820,000	820,000	820,000	820,000	2026	2026
	5142671314	Brampton - Parkdale to Woodward & Brighton	-	-	-	-	-	-	-	-	-	-	810,000	810,000	810,000	810,000	2026	2026
	5142671323	Fennell - Upper James to Upper Wellington	-	-	-	-	-	-	-	-	-	-	670,000	670,000	670,000	670,000	2026	2026
	5142671324	Osler - South St to West Park	-	-	-	-	-	-	-	-	-	-	900,000	900,000	900,000	900,000	2026	2028
	5142771106	Wentworth - Barton to Burlington	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027
	5142771109	Southcote - Hwy 403 bridge to Oldoakes /Dorval	-	-	-	-	-	-	-	-	-	-	2,100,000	2,100,000	2,100,000	2,100,000	2027	2027
	5142771309	Gray - King to Hwy 8	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027
	5142771312	Aberdeen - Queen to Studholme	-	-	-	-	-	-	-	-	-	-	3,200,000	3,200,000	3,200,000	3,200,000	2027	2027
	5142771314	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	2,500,000	2,500,000	2,500,000	2,500,000	2027	2027
	5142771315	Barton St BIA - Wentworth to Sherman	-	-	-	-	-	-	-	-	-	-	3,440,000	3,440,000	3,440,000	3,440,000	2027	2027
	5142871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2028	2028
	5142871118	Charlton - Walnut to Sherman Access	-	-	-	-	-	-	-	-	-	-	2,700,000	2,700,000	2,700,000	2,700,000	2028	<12/31/22
	5142871304	Birge - Emerald to Cheever	-	-	-	-	-	-	-	-	-	-	240,000	240,000	240,000	240,000	2028	2028
	5142871307	Barton St BIA - Ferguson to Wentworth	-	-	-	-	-	-	-	-	-	-	4,440,000	4,440,000	4,440,000	4,440,000	2028	2028
	5142871308	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	2,150,000	2,150,000	2,150,000	2,150,000	2028	2028
	5142871311	Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	1,640,000	1,640,000	1,640,000	1,640,000	2028	2028
	5142871312	Cairns / East St N / Spencer / (Hunter Neighbourhood)	-	-	-	-	-	-	-	-	-	-	630,000	630,000	630,000	630,000	2028	2028
	5142971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	850,000	850,000	850,000	850,000	2029	2029
	5142971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	2,200,000	2,200,000	2,200,000	2,200,000	2029	2029
	5142971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	4,000,000	4,000,000	4,000,000	4,000,000	2029	2029
	5142971117	Green - Carla to Barton	-	-	-	-	-	-	-	-	-	-	1,300,000	1,300,000	1,300,000	1,300,000	2029	2029
	5142971303	Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	720,000	720,000	720,000	720,000	2029	2029
	5142971305	Carling / Macklin St S / Olmstead / Tope (Westdale South)	-	-	-	-	-	-	-	-	-	-	680,000	680,000	680,000	680,000	2029	2029

**CITY OF HAMILTON  
WATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net			
	5142971310	Upper Wellington - Bryna to Mohawk	-	-	-	-	-	-	-	-	-	-	1,050,000	1,050,000	1,050,000	1,050,000	2029	2029	
	5142971311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	820,000	820,000	820,000	820,000	2029	2029	
	5142971316	Sanford - Main to Cannon	-	-	-	-	-	-	-	-	-	-	1,410,000	1,410,000	1,410,000	1,410,000	2029	2029	
	5143071129	Nash – Barton to 350 metres north of Bancroft	-	-	-	-	-	-	-	-	-	-	1,100,000	1,100,000	1,100,000	1,100,000	2030	2030	
	5143071303	Hughson - Wilson to Barton	-	-	-	-	-	-	-	-	-	-	550,000	550,000	550,000	550,000	2030	2030	
	5143071304	Evans - Wellington to East	-	-	-	-	-	-	-	-	-	-	390,000	390,000	390,000	390,000	2030	2030	
	5143071308	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	-	-	-	-	-	-	-	-	-	-	950,000	950,000	950,000	950,000	2030	2030	
Coordinated - Replacement Total			-	-	7,140,000	6,740,000	10,950,000	10,950,000	15,160,000	15,160,000	12,940,000	12,940,000	54,650,000	54,650,000	100,840,000	100,440,000			
	5142170000	Rates Share of Road Reconstruction - NOT TO BE SET UP IN PEOPLESOFT	-	-	4,130,000	4,130,000	3,790,000	3,790,000	4,930,000	4,930,000	4,690,000	4,690,000	56,400,000	56,400,000	73,940,000	73,940,000	2022	2046	
Coordinated Replacement (50/50) Total			-	-	4,130,000	4,130,000	3,790,000	3,790,000	4,930,000	4,930,000	4,690,000	4,690,000	56,400,000	56,400,000	73,940,000	73,940,000			
Demolition / Disposal	5142067420	St. Joseph's Tank Pulsation Dampener (HD0025TK)	20,000	20,000	440,000	440,000	-	-	-	-	-	-	-	-	460,000	460,000	2020	2022	
Demolition / Disposal Total			20,000	20,000	440,000	440,000	-	-	-	-	-	-	-	-	460,000	460,000			
Enhancement	5142166608	Lynden Water System - Phase 2 Treatment	210,000	210,000	110,000	110,000	-	-	-	-	-	-	-	-	320,000	320,000	2021	2022	
Enhancement Total			210,000	210,000	110,000	110,000	-	-	-	-	-	-	-	-	320,000	320,000			
Expansion / Extension	5141796752	PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	2,200,000	1,878,000	-	-	1,100,000	275,000	7,270,000	1,817,500	-	-	-	-	10,570,000	3,970,500	2017	2024	
	5141995951	PS HD019 (Binbrook) Capacity Upgrade (W-20)	20,000	20,000	-	-	-	-	280,000	-	-	-	2,150,000	-	2,450,000	20,000	2019	2026	
	5141996951	Binbrook Feedermain via Fletcher (W-30)	3,920,000	50,000	2,530,000	-	-	-	-	-	-	-	-	-	6,450,000	50,000	2019	2022	
	5142196011	Intensification Infrastructure Upgrades Program - Water	-	-	-	-	400,000	200,000	-	-	400,000	200,000	1,200,000	600,000	2,000,000	1,000,000	2023	2045	
	5142260280	Upper Centennial Watermain Extension	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2022	2022	
	5142396850	Locke St Trunk Watermain - York - Locke to Cannon @ Caroline (W-19)	-	-	-	-	2,530,000	-	-	-	-	-	-	-	2,530,000	-	2023	2023	
	5142495251	Highland Reservoir HDR07 (W-11) Expansion (CASH FLOWED)	-	-	-	-	-	-	1,980,000	-	5,220,000	-	5,220,000	-	12,420,000	-	2021	2026	
	5142496850	Locke St Trunk Watermain - Main to York (W-19)	-	-	-	-	-	-	2,200,000	-	-	-	-	-	2,200,000	-	2024	2024	
	5142596250	HD07A Feedermain (W-22)	-	-	-	-	-	-	-	-	1,160,000	-	7,700,000	-	8,860,000	-	2021	2026	
	5143080081	South Service Rd - Millen to Dewitt	-	-	-	-	-	-	-	-	-	-	-	2,280,000	-	2,280,000	-	2023	2044
	5143080380	South Service Rd - Fruitland to Jones	-	-	-	-	-	-	-	-	-	-	-	1,280,000	-	1,280,000	-	2023	2030
	5143166110	Water Treatment Plant - Process Upgrades Phase 3 (CASH FLOWED)	-	-	-	-	-	-	-	-	-	-	1,100,000	228,800	1,100,000	228,800	2031	2034	
	5143180180	Glover - Barton to South Service Rd Extension	-	-	-	-	-	-	-	-	-	-	-	790,000	-	790,000	-	2024	2031
	5143180182	Shaver - Kastura to Westview	-	-	-	-	-	-	-	-	-	-	225,000	168,750	225,000	168,750	2031	2032	
	5143180381	Dewitt CNR Tracks to Barton	-	-	-	-	-	-	-	-	-	-	610,000	-	610,000	-	2024	2031	
Expansion / Extension Total			6,140,000	1,948,000	3,030,000	500,000	4,030,000	475,000	11,730,000	1,817,500	6,780,000	200,000	22,555,000	997,550	54,265,000	5,938,050			
Feasibility Plans / EA's/ Studies	5141855777	Water Infrastructure Analysis - Growth and Economic Opportunities	920,000	920,000	330,000	330,000	-	-	-	-	-	-	-	-	1,250,000	1,250,000	2018	2022	
	5142096520	Garner Road Trunk Watermain - Southcote to Wilson (W-09)	-	(3,390,000)	13,550,000	-	-	-	-	-	-	-	-	-	13,550,000	(3,390,000)	2020	2023	
	5142155010	Water Systems Planning Program	-	-	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,000,000	6,000,000	2022	2040	
	5142155022	Engineering Consultant Watermain Projects	300,000	300,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	2,400,000	2,400,000	4,300,000	4,300,000	2021	2046	
	5142155247	Alterations to the Drinking Water System	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,650,000	1,650,000	2021	2046	
	5142155556	Mapping Update Program	115,000	115,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	515,000	515,000	2021	2046	
	5142155713	Pressure Districts and Drinking Water System Optimization	-	-	-	-	420,000	420,000	170,000	170,000	170,000	170,000	1,020,000	1,020,000	1,780,000	1,780,000	2022	2031	
	5142157545	Water - Computer Model	170,000	170,000	150,000	150,000	280,000	280,000	280,000	280,000	280,000	280,000	1,680,000	1,680,000	2,840,000	2,840,000	2021	2046	
	5142167752	Water Outstation Inspections - Asset Management	50,000	50,000	-	-	800,000	800,000	800,000	800,000	800,000	800,000	6,300,000	6,300,000	8,750,000	8,750,000	2021	2046	
	5142251112	Inventory Bar Coding System, Equipment & Consulting	-	-	200,000	200,000	-	-	-	-	-	-	-	-	200,000	200,000	2022	2022	
	5142255264	City-Wide Water Master Plan	-	-	280,000	-	-	-	-	-	-	-	550,000	-	830,000	-	2022	2028	
	5142255280	Airport Employment Growth District (AEGD) Water, Wastewater and Stormwater Master Plan Update	-	-	700,000	-	-	-	-	-	-	-	-	-	700,000	-	2022	2022	
	5142255851	Water Efficiency Plan/Program	-	-	115,000	115,000	117,000	117,000	120,000	120,000	122,000	122,000	803,000	803,000	1,277,000	1,277,000	2022	2041	
	5142257000	Vertical Asset Management Program	280,000	280,000	280,000	280,000	-	-	-	-	-	-	-	-	560,000	560,000	2021	2022	
	5142257800	Water Facility Asset Management Implementation Plan	-	-	100,000	100,000	280,000	280,000	110,000	110,000	-	-	-	-	490,000	490,000	2022	2024	
	5142267510	Water System Studies & Continual Improvement Initiatives	-	-	1,100,000	1,100,000	-	-	-	-	-	-	-	-	1,100,000	1,100,000	2022	2022	
	5143066151	2030 SCADA Master Plan	-	-	-	-	-	-	-	-	-	-	5,125,000	5,125,000	5,125,000	5,125,000	2029	2034	
Feasibility Plans / EA's/ Studies Total			1,985,000	(1,405,000)	17,995,000	3,465,000	3,087,000	3,087,000	2,670,000	2,670,000	2,562,000	2,562,000	22,618,000	22,068,000	50,917,000	32,447,000			
Licenses	5142162073	Field Data Systems Program	110,000	110,000	210,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,310,000	1,210,000	2021	2046	
Licenses Total			110,000	110,000	210,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,310,000	1,210,000			
New	5141395354	PD18 (Ancaster) Water Servicing Strategy (W-14) (CASH FLOWED)	220,000	(180,000)	-	-	6,080,000	3,040,000	6,080,000	3,040,000	-	-	-	-	12,380,000	5,900,000	2013	2024	
	5141495551	PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	250,000	250,000	5,500,000	-	5,500,000	-	-	-	-	-	-	-	11,250,000	250,000	2014	2023	
	5141767650	New Greensville Communal Well	320,000	320,000	150,000	150,000	150,000	150,000	3,500,000	3,500,000	3,500,000	3,500,000	-	-	7,620,000	7,620,000	2017	2025	

**CITY OF HAMILTON  
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2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net			
	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)	80,000	80,000	900,000	900,000	-	-	6,150,000	6,150,000	-	-	-	-	7,130,000	7,130,000	2018	2024	
	5142151110	Fleet Additions	1,160,000	1,160,000	1,162,000	-	460,000	460,000	120,000	120,000	130,000	130,000	1,050,000	1,050,000	4,082,000	2,920,000	2021	2046	
	5142161502	Water Meter - Installation/Replacement/Repair - General Maintenance	3,400,000	2,760,000	4,270,000	3,630,000	4,360,000	3,720,000	4,450,000	3,810,000	3,550,000	2,910,000	22,870,000	19,030,000	42,900,000	35,860,000	2021	2046	
	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station	470,000	470,000	550,000	550,000	3,150,000	3,150,000	-	-	-	-	-	-	4,170,000	4,170,000	2021	2023	
	5142441226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	-	-	-	-	2,625,000	2,625,000	5,125,000	5,125,000	-	-	-	-	7,750,000	7,750,000	2023	2024	
	5142467224	New PD2 Water Pumping Station (CASH FLOWED)	-	-	2,650,000	2,650,000	-	-	1,100,000	1,100,000	5,150,000	5,150,000	5,150,000	5,150,000	14,050,000	14,050,000	2022	2026	
	5142495552	P.S. HD07A - New District 7 (Elfrida area) Pumping Station (W-21)	-	-	-	-	-	-	250,000	-	-	-	20,050,000	-	20,300,000	-	2024	2027	
<b>New Total</b>			<b>5,900,000</b>	<b>4,860,000</b>	<b>15,182,000</b>	<b>7,880,000</b>	<b>22,325,000</b>	<b>13,145,000</b>	<b>26,775,000</b>	<b>22,845,000</b>	<b>12,330,000</b>	<b>11,690,000</b>	<b>49,120,000</b>	<b>25,230,000</b>	<b>131,632,000</b>	<b>85,650,000</b>			
Rehabilitation / Renovation	5141269250	HVAC system Upgrades at New Environmental Laboratory and Administration Building	5,420,000	5,420,000	-	-	-	-	110,000	110,000	880,000	880,000	-	-	6,410,000	6,410,000	2011	2025	
	5141567520	Stone Church/Garth Water (HDR05) Reservoir	5,312,000	5,312,000	-	-	3,125,000	3,125,000	2,775,000	2,775,000	-	-	-	-	11,212,000	11,212,000	2015	2024	
	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	2,600,000	2,600,000	2,470,000	2,470,000	-	-	-	-	-	-	-	-	5,070,000	5,070,000	2015	2022	
	5141667421	Glancaster Rd & Hwy 53 Pumping Station (HD018) Upgrades (CASH FLOWED)	10,510,000	10,510,000	-	-	-	-	-	-	-	-	5,500,000	5,500,000	16,010,000	16,010,000	2016	2029	
	5141695883	PS HD016 (York and Valley) Capacity Upgrade, Standby Power & Building Expansion (W-26) (CASH FLOWED)	4,320,000	3,060,000	-	-	3,950,000	395,000	4,150,000	415,000	550,000	55,000	-	-	12,970,000	3,925,000	2016	2025	
	5141760754	Kenilworth Transmission Watermain Renewal	2,000,000	2,000,000	600,000	600,000	-	-	-	-	-	-	-	-	2,600,000	2,600,000	2017	2022	
	5141761777	Beach Trunkmain Rehab	7,700,000	7,700,000	1,500,000	1,500,000	-	-	-	-	-	-	-	-	9,200,000	9,200,000	2017	2022	
	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	23,820,000	13,260,000	550,000	137,500	13,930,000	3,482,500	15,650,000	3,912,500	15,650,000	3,912,500	-	-	69,600,000	24,705,000	2017	2025	
	5141867651	HD007 Highland Rd Reservoir Upgrades	30,000	30,000	170,000	170,000	1,000,000	1,000,000	-	-	-	-	-	-	1,200,000	1,200,000	2018	2023	
	5141966420	Woodward WTP Chlorine Chemical Building	660,000	660,000	1,380,000	1,380,000	-	-	-	-	-	-	-	-	2,040,000	2,040,000	2019	2022	
	5141967375	HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades	14,360,000	14,360,000	330,000	330,000	-	-	-	-	-	-	-	-	14,690,000	14,690,000	2019	2022	
	5142067450	Lee Smith Reservoir (HDR00) Upgrades	110,000	110,000	170,000	170,000	-	-	-	-	-	-	-	-	280,000	280,000	2020	2022	
	5142111101	Road Cut Restoration Program	5,400,000	5,400,000	7,965,000	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	32,400,000	61,965,000	54,000,000	2021	2046	
	5142157626	Critical Watermain Inspection Program	600,000	600,000	731,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,731,000	6,600,000	2021	2046	
	5142160072	Watermain Structural Lining	7,700,000	7,700,000	5,300,000	-	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	37,200,000	37,200,000	68,800,000	63,500,000	2021	2046	
	5142160073	Structural Watermain Lining - Charlton Ave 750mm	150,000	150,000	-	-	-	-	-	-	-	-	2,680,000	2,680,000	2,830,000	2,830,000	2021	2029	
	5142166110	Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)	1,378,000	1,378,000	1,378,000	751,000	2,705,000	1,473,000	19,175,000	10,442,000	54,838,000	29,862,000	66,706,000	36,324,000	146,180,000	80,230,000	2021	2028	
	5142166713	Water Maintenance Capital Program	-	-	1,000,000	1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	19,000,000	19,000,000	2022	2046	
	5142167420	HDR18 Glancaster Reservoir Upgrades	440,000	440,000	440,000	440,000	1,430,000	1,430,000	1,100,000	1,100,000	-	-	-	-	3,410,000	3,410,000	2021	2024	
	5142167421	HDR11 Woodley Lane Reservoir Upgrades	1,600,000	1,600,000	170,000	170,000	500,000	500,000	-	-	-	-	-	-	2,270,000	2,270,000	2021	2023	
	5142169075	City Environmental Lab Improvements Program	275,000	275,000	340,000	340,000	190,000	190,000	90,000	90,000	50,000	50,000	300,000	300,000	1,245,000	1,245,000	2021	2046	
	5142261240	Woodward Treatment Plant Filter Building - Flume Watermain Lining	-	-	2,000,000	2,000,000	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2022	2022	
	5142261741	Resetting or Adjusting of Water Utility Structures	-	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,500,000	2,500,000	2022	2046	
	5142262620	Water Treatment Plant - Clearwells Concrete Restoration Upgrades	-	-	600,000	600,000	700,000	700,000	2,400,000	2,400,000	2,400,000	2,400,000	-	-	6,100,000	6,100,000	2022	2025	
	5142266320	Woodward Water Treatment Plant - Low Lift Pumping Station Intake Repairs	-	-	830,000	830,000	-	-	-	-	-	-	-	-	830,000	830,000	2022	2022	
	5142266712	Water Maintenance - Rebuild, Replacement and New Capital	-	-	400,000	400,000	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	1,200,000	2,200,000	2,200,000	2022	2046	
	5142267585	Diesel Fuel Storage Compliance Upgrades	-	-	500,000	500,000	600,000	600,000	-	-	-	-	-	-	1,100,000	1,100,000	2022	2023	
	5142567751	Water Outstation Upgrades - Asset Management Program	-	-	-	-	-	-	-	-	7,500,000	7,500,000	45,000,000	45,000,000	52,500,000	52,500,000	2023	2046	
	5142661308	James and Charlton Intersection	-	-	-	-	-	-	-	-	-	-	940,000	940,000	940,000	940,000	2026	2026	
	5142860072	WM Structural Lining - Dundas Valley Watermain	-	-	-	-	-	-	-	-	-	-	1,550,000	1,550,000	1,550,000	1,550,000	2028	2028	
	<b>Rehabilitation / Renovation Total</b>			<b>94,385,000</b>	<b>82,565,000</b>	<b>29,074,000</b>	<b>14,638,500</b>	<b>42,780,000</b>	<b>27,545,500</b>	<b>60,100,000</b>	<b>35,894,500</b>	<b>96,518,000</b>	<b>59,309,500</b>	<b>210,576,000</b>	<b>180,194,000</b>	<b>533,433,000</b>	<b>400,147,000</b>		
	Replacement	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning	180,000	180,000	140,000	140,000	3,850,000	3,850,000	-	-	-	-	-	-	4,170,000	4,170,000	2015	2023
5141595553		PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	260,000	(32,000)	220,000	55,000	2,650,000	662,500	4,350,000	1,087,500	-	-	-	-	7,480,000	1,773,000	2015	2024	
5141966151		SCADA Maintenance Program	2,400,000	2,400,000	150,000	150,000	275,000	275,000	275,000	275,000	900,000	900,000	2,275,000	2,275,000	6,275,000	6,275,000	2019	2046	
5142066310		WTP Pre-Treatment Isolation Valves	1,280,000	1,280,000	550,000	550,000	-	-	-	-	-	-	-	-	1,830,000	1,830,000	2020	2022	
5142066350		WTP Chlorine Chemical Building	200,000	200,000	-	-	-	-	6,430,000	6,430,000	6,430,000	6,430,000	-	-	13,060,000	13,060,000	2020	2025	
5142149555		QA-QC Service Contract Program	-	-	290,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,640,000	1,500,000	2021	2046	
5142160080		Valve Replacement Program	1,200,000	1,200,000	3,780,000	2,610,000	1,720,000	1,720,000	1,450,000	1,450,000	1,780,000	1,780,000	8,550,000	8,550,000	18,480,000	17,310,000	2021	2046	
5142160577		Metallic Watermain Condition Assessment Program	630,000	630,000	815,000	630,000	630,000	630,000	630,000	630,000	630,000	630,000	3,780,000	3,780,000	7,115,000	6,930,000	2021	2046	
5142160711		PW Capital Water Consumption Program	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,750,000	2,750,000	2021	2046	
5142160750		Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	3,000,000	3,000,000	2,850,000	1,550,000	2,850,000	2,850,000	2,350,000	2,350,000	2,350,000	2,350,000	14,100,000	14,100,000	27,500,000	26,200,000	2021	2046	
5142161300		Stand-Alone Watermain Replacement	-	-	-	-	-	-	-	-	-	-	5,000,000	5,000,000	5,000,000	5,000,000	2028	2046	
5142162078		Substandard Water Service Replacement Program	2,750,000	2,750,000	2,350,000	2,350,000	2,350,000	2,350,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	23,450,000	23,450,000	2021	2046	
5142171074		Contingency for Unscheduled Works Program	299,996	299,996	-	-	180,000	180,000	-	-	180,000	180,000	540,000	540,000	1,199,996	1,199,996	2021	2046	
5142260081		Large Valve Replacement - Nash	-	-	2,000,000	-	-	-	-	-	-	-	-	-	2,000,000	-	2022	2022	

**CITY OF HAMILTON**  
**WATER SYSTEM**  
**2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5142260082	Large Valve Replacement - Longwood and Glenside	-	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000	-	2022	2022
	5142271318	Eastmount Neighbourhood - Water	-	-	210,000	160,000	-	-	-	-	-	-	-	-	210,000	160,000	2022	2022
	5142461302	Bold - Queen to Locke	-	-	-	-	-	-	700,000	700,000	-	-	-	-	700,000	700,000	2021	2024
	5142472304	Bridge 451 - Hwy 5 E, 120m e/o Mill St S	-	-	-	-	-	-	140,000	140,000	-	-	-	-	140,000	140,000	2024	2031
	5142661301	Robinson - Hess to Park	-	-	-	-	-	-	-	-	-	-	950,000	950,000	950,000	950,000	2021	2026
	5142661306	Amelia - Queen to West End	-	-	-	-	-	-	-	-	-	-	560,000	560,000	560,000	560,000	2026	2026
	5142661307	Dallas - Upper Gage to West End	-	-	-	-	-	-	-	-	-	-	630,000	630,000	630,000	630,000	2026	2026
	5142661309	Myler - Sanford to Milton/Milton - Barton to Princess	-	-	-	-	-	-	-	-	-	-	470,000	470,000	470,000	470,000	2026	2026
	5142760311	George - Queen to Ray	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2027	2027
	5142761302	Edgemont - Main to King	-	-	-	-	-	-	-	-	-	-	660,000	660,000	660,000	660,000	2021	2028
	5142861302	Edward - Barnesdale to Lottridge	-	-	-	-	-	-	-	-	-	-	360,000	360,000	360,000	360,000	2028	2028
	5142861303	Hess - Markland to Aberdeen	-	-	-	-	-	-	-	-	-	-	460,000	460,000	460,000	460,000	2028	2028
	5142861305	John - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	810,000	810,000	810,000	810,000	2028	2028
	5142961301	Clinton\Case\Ruth\Barnesdale	-	-	-	-	-	-	-	-	-	-	1,810,000	1,810,000	1,810,000	1,810,000	2029	2029
	5143060310	Princess/Westinghouse/Milton/Fullerton/Gibson/Earl	-	-	-	-	-	-	-	-	-	-	4,200,000	4,200,000	4,200,000	4,200,000	2030	2030
	5143061303	Caroline - Herkimer to Robinson	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2030	2030
	5143166510	GAC Replacement	-	-	-	-	-	-	-	-	-	-	600,000	600,000	600,000	600,000	2026	2032
<b>Replacement Total</b>			<b>12,449,996</b>	<b>12,157,996</b>	<b>14,605,000</b>	<b>8,595,000</b>	<b>14,905,000</b>	<b>12,917,500</b>	<b>18,725,000</b>	<b>15,462,500</b>	<b>14,670,000</b>	<b>14,670,000</b>	<b>60,995,000</b>	<b>60,995,000</b>	<b>136,349,996</b>	<b>124,797,996</b>		
Safety/ Security	5142266351	Woodward SCADA OT (Operating Technology) Security Program	-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000	2022	2022
	5142266871	Hamilton Water Capital Security Plan	-	-	1,030,000	1,030,000	1,060,000	1,060,000	1,130,000	1,130,000	790,000	790,000	530,000	530,000	4,540,000	4,540,000	2022	2031
<b>Safety/ Security Total</b>			<b>-</b>	<b>-</b>	<b>1,155,000</b>	<b>1,155,000</b>	<b>1,060,000</b>	<b>1,060,000</b>	<b>1,130,000</b>	<b>1,130,000</b>	<b>790,000</b>	<b>790,000</b>	<b>530,000</b>	<b>530,000</b>	<b>4,665,000</b>	<b>4,665,000</b>		
Staffing Costs	5142101099	Engineering Services Staffing Costs - Water	4,700,000	4,700,000	4,500,000	4,036,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,236,000	2021	2046
<b>Staffing Costs Total</b>			<b>4,700,000</b>	<b>4,700,000</b>	<b>4,500,000</b>	<b>4,036,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>27,000,000</b>	<b>27,000,000</b>	<b>49,700,000</b>	<b>49,236,000</b>		
<b>Grand Total</b>			<b>126,899,996</b>	<b>106,085,996</b>	<b>105,271,000</b>	<b>56,639,500</b>	<b>111,222,000</b>	<b>80,700,000</b>	<b>148,240,000</b>	<b>106,929,500</b>	<b>157,650,000</b>	<b>112,821,500</b>	<b>517,254,000</b>	<b>439,474,550</b>	<b>1,166,536,996</b>	<b>902,651,046</b>		



**SOURCE OF CAPITAL FINANCING  
2022 to 2031 RATE PROGRAM CAPITAL BUDGET  
\$(000'S)**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022 to 2031
<b>WASTEWATER</b>											
<b>Capital Program</b>	<b>169,020</b>	<b>82,005</b>	<b>106,565</b>	<b>93,275</b>	<b>175,923</b>	<b>175,418</b>	<b>179,428</b>	<b>101,050</b>	<b>90,770</b>	<b>101,560</b>	<b>1,275,014</b>
<b>Source of Funding</b>											
Subsidy/Other Revenue	4,000	-	2,720	7,000	-	-	-	-	-	-	13,720
Development Charges	39,241	18,059	24,634	6,564	98,822	96,422	96,772	864	664	864	382,901
Reserves & Other Internal Sources	19,996	9,000	5,000	-	-	-	-	-	-	-	33,996
Contribution from Operating	73,784	47,226	36,791	46,481	72,871	78,996	82,656	89,186	90,106	100,696	718,797
External Debt	32,000	7,720	37,420	33,230	4,230	-	-	11,000	-	-	125,600
<b>Total</b>	<b>169,020</b>	<b>82,005</b>	<b>106,565</b>	<b>93,275</b>	<b>175,923</b>	<b>175,418</b>	<b>179,428</b>	<b>101,050</b>	<b>90,770</b>	<b>101,560</b>	<b>1,275,014</b>

**City of Hamilton  
Wastewater System  
2022 Capital Budget Project List  
(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5162180187	Garner Road Trunk Sanitary Sewer - Hwy 6 w/o Raymond - CASH FLOW	4,000,000			4,000,000			-		
	5162280280	Dewitt Road Sanitary Sewer - Barton to SSR	1,000,000		500,000				500,000	500,000	
	5162280281	Dickenson Road West Sanitary Sewer - Garth Street Extension to Upper James Street	2,670,000			2,670,000			-		
	5162280282	Fifty Road Trunk Sanitary Sewer	1,300,000			1,300,000			-		
	5162280284	Shaver Road Sanitary Sewer - Osprey to hydro corridor	600,000			600,000			-		
<b>Coordinated - Network Extension Total</b>			<b>9,570,000</b>		<b>500,000</b>	<b>8,570,000</b>			<b>500,000</b>	<b>500,000</b>	
Coordinated - Replacement	5162171015	Sewer Lateral Replacement for Co-ordinated Projects	600,000					100,000	500,000	500,000	
	5162171025	Dewitt - Highway 8 to Barton	1,040,000						1,040,000	1,040,000	
	5162271012	Strathearne - Main to Britannia - Sewer Laterals	170,000						170,000	170,000	
	5162271306	Kelvin - Old Orchard to south end	60,000						60,000	60,000	
	5162272205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,250,000					1,250,000	-		
	5162271308	Concession / Mountain Brow - Upper Gage to Oakcrest	150,000						150,000	150,000	
	5162271021	Westdale South Neighbourhood (Central)	30,000						30,000	30,000	
	5162271296	Governor's - Main to Ogilvie (Bridge 296)	380,000						380,000	380,000	
	5162271022	Burlington - James to Ferguson	440,000					240,000	200,000	200,000	
	5162271109	Scenic - Mohawk to Chateau	70,000						70,000	70,000	
	5162271214	Fairfield - Barton to Britannia	250,000						250,000	250,000	
	5162271303	Marion - Longwood to Dromore	180,000						180,000	180,000	
<b>Coordinated - Replacement Total</b>			<b>4,620,000</b>					<b>1,590,000</b>	<b>3,030,000</b>	<b>3,030,000</b>	
Demolition / Disposal	5162068851	Pier 25 Dredging - Windermere Basin	13,250,000						13,250,000	13,250,000	
<b>Demolition / Disposal Total</b>			<b>13,250,000</b>						<b>13,250,000</b>	<b>13,250,000</b>	
Enhancement	5162241350	Pilot solar power installation at a Class B Hamilton Water facility	150,000						150,000	150,000	-
	5162268757	Lower Chedoke Combined EA Study	280,000				280,000		-	-	
	5162268767	Chedoke Watershed Stormwater Retrofit EA Study	280,000				280,000		-	-	
<b>Enhancement Total</b>			<b>710,000</b>				<b>560,000</b>		<b>150,000</b>	<b>150,000</b>	<b>-</b>
Expansion / Extension	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	4,500,000			4,500,000			-		
	5162280283	370 Garner Road Pumping Station (AEGD)	3,500,000		3,500,000				-		
<b>Expansion / Extension Total</b>			<b>8,000,000</b>		<b>3,500,000</b>	<b>4,500,000</b>			<b>-</b>		
Feasibility Plans / EA's/ Studies	5161555264	City-Wide Wastewater Master Plan	280,000			280,000			-		
	5161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities	550,000						550,000	550,000	
	5162055800	Sewer Outfall Monitoring Study	500,000						500,000	500,000	
	5162095800	Flooding & Drainage Master Plan Capital Improvements	450,000						450,000	450,000	
	5162149555	QA-QC Service Contract Program	150,000						150,000	150,000	
	5162155010	Wastewater Systems Planning Program	600,000						600,000	600,000	
	5162155022	Engineering Consultant Sewermain Projects	500,000						500,000	500,000	
	5162155556	Mapping Update Program	40,000						40,000	40,000	
	5162155878	Forcemain Condition Assessment Program	626,000					356,000	270,000	270,000	
	5162157545	Wastewater Computer Model Update & Maintenance	220,000						220,000	220,000	
	5162167752	Wastewater Outstation Inspections - Asset Management Program	1,020,000						1,020,000	1,020,000	
	5162168777	Chedoke Creek Water Quality Improvements (CASH FLOWED)	9,050,000				9,050,000		-	-	
	5162562543	CSO Characterization Program	170,000						170,000	170,000	
	5162255242	Combined Sewer Outfall Monitoring Study	600,000						600,000	600,000	
	5162255800	Inflow & Infiltration Study for New Subdivisions	550,000						550,000	550,000	
	5162262305	Iona Avenue Sewer Improvements	330,000						330,000	330,000	
	5162257800	Wastewater Facility Asset Management Implementation Plan	100,000						100,000	100,000	
<b>Feasibility Plans / EA's/ Studies Total</b>			<b>15,736,000</b>		<b>-</b>	<b>280,000</b>	<b>9,050,000</b>	<b>356,000</b>	<b>6,050,000</b>	<b>6,050,000</b>	
Licenses	5162162073	Field Data Systems Program	110,000						110,000	110,000	
<b>Licenses Total</b>			<b>110,000</b>						<b>110,000</b>	<b>110,000</b>	

**City of Hamilton  
Wastewater System  
2022 Capital Budget Project List  
(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources		
										From Operating	External Debt	
New	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	20,300,000			20,300,000			-			
	5162280285	Drop Structure Installation - Upper Centennial Trunk Sewer Manhole #10	500,000						500,000	500,000		
<b>New Total</b>			<b>20,800,000</b>			<b>20,300,000</b>			<b>500,000</b>	<b>500,000</b>		
Rehabilitation / Renovation	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	37,895,253	-		5,067,000	-		32,828,253	6,478,253	26,350,000	
	5160966910	Woodward WWTP - Biosolids Management Facility	2,770,000			523,530	-		2,246,470	2,246,470		
	5161966511	Woodward WWTP - Digester 3 & 5 (CASH FLOWED)	4,710,000						4,710,000	4,710,000		
	5162067425	Hillside SPS (DC006) Upgrades	280,000						280,000	280,000		
	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	1,100,000						1,100,000	1,100,000		
	5162111101	Road Cut Restoration Program	2,315,000					515,000	1,800,000	1,800,000		
	5162160302	Emergency Repairs - Cross Connections Program	1,470,000					1,170,000	300,000	300,000		
	5162160390	Wastewater System Lining Program	4,050,000					400,000	3,650,000	3,650,000		
	5162160522	Sewer Lateral Management Program (WWC)	4,000,000						4,000,000	4,000,000		
	5162160533	Trenchless Manhole Rehabilitation	250,000					70,000	180,000	180,000		
	5162160574	Capital Programming Sewer Inspection & Assessment	1,150,000					450,000	700,000	700,000		
	5162160575	Mainline Sewer Condition Assessment Program	2,030,000					890,000	1,140,000	1,140,000		
	5162160576	Sewer Lateral Condition Assessment Program	790,000					540,000	250,000	250,000		
	5162161444	Sewer Lateral Replace/Rehab Program	3,620,000					520,000	3,100,000	3,100,000		
	5162169075	City Environmental Lab Improvements Program	340,000						340,000	340,000		
	5162167501	Odour Control Program & Media Replacement	1,000,000						1,000,000	1,000,000		
	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	330,000						330,000	330,000		
	5162261741	Resetting or Adjusting of Wastewater Utility Structures	250,000						250,000	250,000		
	5162262250	Eastern Sewer Interceptor (ESI) - South Service - Fruitland to Green	8,000,000					3,067,585	4,932,415	4,932,415		
	5162267375	Beach Boulevard (HC051) Wastewater Pump Station Upgrades	440,000						440,000	440,000		
	5162267376	Rockcliffe (DC015) Wastewater Pumping Station Upgrades	990,000						990,000	990,000		
	5162266911	Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)	3,450,000						3,450,000	3,450,000		
5162267585	Diesel Fuel Storage Compliance Upgrades	1,100,000						1,100,000	1,100,000			
5162166810	Woodward WWTP - Maintenance Building (CASH FLOWED)	500,000						500,000	500,000			
5162266712	Wastewater Maintenance - Rebuild, Replacement and New Capital	600,000						600,000	600,000			
5165522888	Mill St Bridge - Sanitary Sewer Erosion Protection	350,000						350,000	350,000			
<b>Rehabilitation / Renovation Total</b>			<b>83,780,253</b>	<b>-</b>		<b>5,590,530</b>	<b>3,067,585</b>	<b>4,555,000</b>	<b>70,567,138</b>	<b>44,217,138</b>	<b>26,350,000</b>	
Relocation	5162255900	EA - McMaster Innovation Park (MIP) Storm Sewer Relocation	5,650,000						5,650,000		5,650,000	
<b>Relocation Total</b>			<b>5,650,000</b>						<b>5,650,000</b>		<b>5,650,000</b>	
Replacement	5161966151	SCADA Maintenance Program	150,000						150,000	150,000		
	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations	219,000					119,000	100,000	100,000		
	5162160711	PW Capital Water Consumption Program	250,000						250,000	250,000		
	5162160820	Open Cut Repairs for CIPP Program	620,000					120,000	500,000	500,000		
	5162161740	Unscheduled Manhole and Sewermain Replacement Program	750,000						750,000	750,000		
	5162171074	Contingency for Unscheduled Works Program	180,000						180,000	180,000		
<b>Replacement Total</b>			<b>2,169,000</b>					<b>239,000</b>	<b>1,930,000</b>	<b>1,930,000</b>		
Safety/ Security	5162266351	Woodward SCADA OT (Operating Technology) Security Program	125,000						125,000	125,000		
<b>Safety/ Security Total</b>			<b>125,000</b>						<b>125,000</b>	<b>125,000</b>		
Staffing Costs	5162101099	Engineering Services Staffing Costs - Wastewater	4,500,000					578,000	3,922,000	3,922,000		
<b>Staffing Costs Total</b>			<b>4,500,000</b>					<b>578,000</b>	<b>3,922,000</b>	<b>3,922,000</b>		
<b>Grand Total</b>			<b>169,020,253</b>	<b>-</b>		<b>4,000,000</b>	<b>39,240,530</b>	<b>12,677,585</b>	<b>7,318,000</b>	<b>105,784,138</b>	<b>73,784,138</b>	<b>32,000,000</b>

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net			
Coordinated - Network Extension	15162180187	Garner Road Trunk Sanitary Sewer - Hwy 6 w/o Raymond - CASH FLOW	4,000,000	4,000,000	4,000,000	-	-	-	-	-	-	-	-	-	-	8,000,000	4,000,000	2021	2022
	15162280280	Dewitt Road Sanitary Sewer - Barton to SSR	-	-	1,000,000	500,000	-	-	-	-	-	-	-	-	-	1,000,000	500,000	2022	2022
	15162280281	Dickenson Road West Sanitary Sewer - Garth Street Extension to Upper James Street	-	-	2,670,000	-	-	-	-	-	-	-	-	-	-	2,670,000	-	2022	2022
	15162280282	Fifty Road Trunk Sanitary Sewer	-	-	1,300,000	-	-	-	-	-	-	-	-	-	-	1,300,000	-	2022	2022
	15162280284	Shaver Road Sanitary Sewer - Osprey to hydro corridor	-	-	600,000	-	-	-	-	-	-	-	-	-	-	600,000	-	2022	2022
<b>Coordinated - Network Extension Total</b>			<b>4,000,000</b>	<b>4,000,000</b>	<b>9,570,000</b>	<b>500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13,570,000</b>	<b>4,500,000</b>			
Coordinated - Replacement	15162171015	Sewer Lateral Replacement for Co-ordinated Projects	354,000	354,000	600,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,454,000	5,354,000	2021	2046	
	15162171025	Dewitt - Highway 8 to Barton	600,000	600,000	1,040,000	1,040,000	-	-	-	-	-	-	-	-	1,640,000	1,640,000	2021	2022	
	15162271012	Strathearne - Main to Britannia - Sewer Laterals	-	-	170,000	170,000	-	-	-	-	-	-	-	-	170,000	170,000	2022	2022	
	15162271021	Westdale South Neighbourhood (Central)	-	-	30,000	30,000	-	-	-	-	-	-	-	-	30,000	30,000	2022	2022	
	15162271022	Burlington - James to Ferguson	-	-	440,000	200,000	-	-	-	-	-	-	-	-	440,000	200,000	2022	2022	
	15162271109	Scenic - Mohawk to Chateau	-	-	70,000	70,000	-	-	-	-	-	-	-	-	70,000	70,000	2022	2022	
	15162271214	Fairfield - Barton to Britannia	-	-	250,000	250,000	-	-	-	-	-	-	-	-	250,000	250,000	2022	2022	
	15162271296	Governor's - Main to Oglivie (Bridge 296)	-	-	380,000	380,000	-	-	-	-	-	-	-	-	380,000	380,000	2022	2022	
	15162271303	Marion - Longwood to Dromore	-	-	180,000	180,000	-	-	-	-	-	-	-	-	180,000	180,000	2022	2022	
	15162271306	Kelvin - Old Orchard to south end	-	-	60,000	60,000	-	-	-	-	-	-	-	-	60,000	60,000	2022	2022	
	15162271308	Concession / Mountain Brow - Upper Gage to Oakcrest	-	-	150,000	150,000	-	-	-	-	-	-	-	-	150,000	150,000	2022	2022	
	15162272205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	-	-	1,250,000	-	-	-	-	-	-	-	-	-	1,250,000	-	2022	2022	
	15162371307	Duke - Hess to west end & Robinson - Queen to west end	-	-	-	-	30,000	30,000	250,000	250,000	-	-	-	-	280,000	280,000	2023	2024	
	15162471202	Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	-	-	-	-	400,000	400,000	-	-	-	-	400,000	400,000	2024	2024	
	15162471304	Ferguson/Foster/Walnut/Patrick	-	-	-	-	-	-	110,000	110,000	-	-	-	-	110,000	110,000	2024	2024	
	15162471308	Scenic - Chateau Crt to Upper Paradise	-	-	-	-	-	-	1,070,000	1,070,000	-	-	-	-	1,070,000	1,070,000	2024	2024	
	15162571201	Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	-	-	-	-	-	400,000	400,000	-	-	400,000	400,000	2025	2025	
	15162772214	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	1,590,000	1,590,000	1,590,000	1,590,000	2027	2027	
	15162871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	750,000	750,000	750,000	750,000	2028	2028	
	15162871118	Charlton - Walnut to Sherman Access	-	-	-	-	-	-	-	-	-	-	120,000	120,000	120,000	120,000	2028	2028	
	15162871208	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	760,000	760,000	760,000	760,000	2028	2028	
	15162871311	Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	440,000	440,000	440,000	440,000	2028	2028	
	15162971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	20,000	20,000	20,000	20,000	2029	2029	
	15162971106	Wentworth - Barton to Burlington	-	-	-	-	-	-	-	-	-	-	250,000	250,000	250,000	250,000	2027	2027	
	15162971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	750,000	750,000	750,000	750,000	2029	2029	
	15162971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	75,000	75,000	75,000	75,000	2029	2029	
	15162971117	Green - Carla to Barton	-	-	-	-	-	-	-	-	-	-	100,000	100,000	100,000	100,000	2029	2029	
15162971311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2029	2029		
15163071308	Stipeley Neighbourhood (South) - Connaught / Balsam / Dunsmore	-	-	-	-	-	-	-	-	-	-	80,000	80,000	80,000	80,000	2030	2030		
<b>Coordinated - Replacement Total</b>			<b>954,000</b>	<b>954,000</b>	<b>4,620,000</b>	<b>3,030,000</b>	<b>530,000</b>	<b>530,000</b>	<b>2,330,000</b>	<b>2,330,000</b>	<b>900,000</b>	<b>900,000</b>	<b>8,355,000</b>	<b>8,355,000</b>	<b>17,689,000</b>	<b>16,099,000</b>			
Demolition / Disposal	15161767772	Decommissioning Aberdeen Sewage Pumping Station	10,000	10,000	-	-	-	-	-	-	110,000	110,000	1,190,000	1,190,000	1,310,000	1,310,000	2019	2026	
	15162068851	Pier 25 Dredging - Windermere Basin	50,000	50,000	13,250,000	13,250,000	-	-	-	-	-	-	-	-	13,300,000	13,300,000	2018	2022	
<b>Demolition / Disposal Total</b>			<b>60,000</b>	<b>60,000</b>	<b>13,250,000</b>	<b>13,250,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>110,000</b>	<b>110,000</b>	<b>1,190,000</b>	<b>1,190,000</b>	<b>14,610,000</b>	<b>14,610,000</b>			
Enhancement	15162241350	Pilot solar power installation at a Class B Hamilton Water facility	-	-	150,000	150,000	600,000	600,000	-	-	-	-	-	-	750,000	750,000	2022	2025	
	15162268757	Lower Chedoke Combined EA Study	-	-	280,000	-	1,650,000	-	1,100,000	-	2,100,000	2,100,000	2,100,000	2,100,000	7,230,000	4,200,000	2022	2026	
	15162268767	Chedoke Watershed Stormwater Retrofit EA Study	-	-	280,000	-	1,100,000	-	3,150,000	350,000	3,150,000	3,150,000	4,300,000	4,300,000	11,980,000	7,800,000	2022	2027	
<b>Enhancement Total</b>			<b>-</b>	<b>-</b>	<b>710,000</b>	<b>150,000</b>	<b>3,350,000</b>	<b>600,000</b>	<b>4,250,000</b>	<b>350,000</b>	<b>5,250,000</b>	<b>5,250,000</b>	<b>6,400,000</b>	<b>6,400,000</b>	<b>19,960,000</b>	<b>12,750,000</b>			
Expansion / Extension	15161966102	Woodward WWTP - Expansion (CASH FLOWED)	3,500,000	-	4,500,000	-	4,500,000	-	5,700,000	-	5,700,000	-	289,274,000	-	313,174,000	-	2019	2028	
	15162196011	Intensification Infrastructure Upgrades Program - Wastewater	-	-	-	-	400,000	200,000	-	-	400,000	200,000	1,200,000	600,000	2,000,000	1,000,000	2023	2039	
	15162280283	370 Garner Road Pumping Station (AEGD)	-	-	3,500,000	-	-	-	-	-	-	-	-	-	3,500,000	-	2022	2022	
	15162380380	Millen Road Sanitary Sewer QEW crossing	-	-	-	-	1,125,000	-	-	-	-	-	-	-	1,125,000	-	2023	2023	
	15162696475	Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	-	-	-	-	-	-	22,500,000	22,500,000	22,500,000	22,500,000	2027	2029	
<b>Expansion / Extension Total</b>			<b>3,500,000</b>	<b>-</b>	<b>8,000,000</b>	<b>-</b>	<b>6,025,000</b>	<b>200,000</b>	<b>5,700,000</b>	<b>-</b>	<b>6,100,000</b>	<b>200,000</b>	<b>312,974,000</b>	<b>23,100,000</b>	<b>342,299,000</b>	<b>23,500,000</b>			
Feasibility Plans / EA's/ Studies	15161555264	City-Wide Wastewater Master Plan	950,000	680,000	280,000	-	-	-	-	-	-	-	550,000	-	1,780,000	680,000	2015	2028	
	15161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	20,000,000	(2,650,000)	-	-	-	-	18,000,000	-	-	-	-	-	38,000,000	(2,650,000)	2016	2024	
	15161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities	920,000	920,000	550,000	550,000	-	-	-	-	-	-	-	-	1,470,000	1,470,000	2018	2022	
	15162055800	Sewer Outfall Monitoring Study	-	-	500,000	500,000	-	-	1,000,000	1,000,000	-	-	-	-	1,500,000	1,500,000	2020	2024	

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5162095800	Flooding & Drainage Master Plan Capital Improvements	380,000	380,000	450,000	450,000	550,000	550,000	440,000	440,000	170,000	170,000	-	-	1,990,000	1,990,000	2020	2025
	5162149555	QA-QC Service Contract Program	-	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,500,000	1,500,000	2021	2046
	5162155010	Wastewater Systems Planning Program	-	-	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,000,000	6,000,000	2022	2046
	5162155022	Engineering Consultant Sewermain Projects	300,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,300,000	5,300,000	2021	2046
	5162155556	Mapping Update Program	96,000	96,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	496,000	496,000	2021	2046
	5162155878	Forcemain Condition Assessment Program	270,000	270,000	626,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	1,620,000	1,620,000	3,326,000	2,970,000	2021	2046
	5162155880	Inflow & Infiltration Studies and Flow Monitoring Program	450,000	450,000	-	-	820,000	410,000	820,000	410,000	280,000	140,000	1,680,000	840,000	4,050,000	2,250,000	2021	2046
	5162157545	Wastewater Computer Model Update & Maintenance	150,000	150,000	220,000	220,000	440,000	440,000	440,000	440,000	280,000	280,000	1,020,000	1,020,000	2,550,000	2,550,000	2021	2046
	5162167752	Wastewater Outstation Inspections - Asset Management Program	200,000	200,000	1,020,000	1,020,000	920,000	920,000	920,000	920,000	920,000	920,000	5,520,000	5,520,000	9,500,000	9,500,000	2021	2046
	5162168777	Chedoke Creek Water Quality Improvements (CASH FLOWED)	800,000	800,000	9,050,000	-	1,250,000	-	1,100,000	-	-	-	-	-	12,200,000	800,000	2021	2024
	516225242	Combined Sewer Outfall Monitoring Study	-	-	600,000	600,000	200,000	71,470	-	-	-	-	-	-	800,000	671,470	2022	2023
	5162255800	Inflow & Infiltration Study for New Subdivisions	-	-	550,000	550,000	-	-	-	-	-	-	-	-	550,000	550,000	2022	2022
	5162257800	Wastewater Facility Asset Management Implementation Plan	-	-	100,000	100,000	280,000	280,000	110,000	110,000	-	-	-	-	490,000	490,000	2022	2024
	5162262305	Iona Avenue Sewer Improvements	-	-	330,000	330,000	-	-	-	-	-	-	-	-	330,000	330,000	2022	2022
	5162562543	CSO Characterization Program	-	-	170,000	170,000	170,000	170,000	170,000	170,000	600,000	600,000	1,020,000	1,020,000	2,130,000	2,130,000	2022	2031
	5163066151	2030 SCADA Master Plan	-	-	-	-	-	-	-	-	-	-	5,125,000	5,125,000	5,125,000	5,125,000	2029	2034
Feasibility Plans / EA's/ Studies Total			24,516,000	1,596,000	15,736,000	6,050,000	6,190,000	4,401,470	24,560,000	5,050,000	3,810,000	3,670,000	24,275,000	22,885,000	99,087,000	43,652,470		
Licenses	5162162073	Field Data Systems Program	170,000	170,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,270,000	1,270,000	2021	2046
Licenses Total			170,000	170,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,270,000	1,270,000		
New	5161667421	New Haulage Receiving Station	190,000	190,000	-	-	170,000	170,000	5,150,000	5,150,000	5,150,000	5,150,000	-	-	10,660,000	10,660,000	2016	2025
	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	46,000,000	(5,500,000)	20,300,000	-	11,300,000	-	-	-	-	-	-	-	77,600,000	(5,500,000)	2016	2023
	5162280285	Drop Structure Installation - Upper Centennial Trunk Sewer Manhole #10	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2022	2022
New Total			46,190,000	(5,310,000)	20,800,000	500,000	11,470,000	170,000	5,150,000	5,150,000	5,150,000	5,150,000	-	-	88,760,000	5,660,000		
Rehabilitation / Renovation	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	386,737,000	374,971,000	37,895,253	32,828,253	-	-	-	-	-	-	-	-	424,632,253	407,799,253	2008	2022
	5160966910	Woodward WWTP - Biosolids Management Facility	37,680,000	16,441,000	2,770,000	2,246,470	2,770,000	2,770,000	2,770,000	2,246,470	2,770,000	2,246,470	16,620,000	13,478,820	65,380,000	36,659,230	2009	2046
	5161266213	Dundas WWTP Improvements (CASH FLOWED)	2,770,000	2,770,000	-	-	1,650,000	1,650,000	-	-	9,150,000	9,150,000	14,700,000	14,700,000	28,270,000	28,270,000	2011	2027
	5161467756	Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	2,470,000	2,470,000	-	-	2,150,000	2,150,000	-	-	-	-	-	-	4,620,000	4,620,000	2014	2023
	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades	560,000	560,000	-	-	2,860,000	2,860,000	-	-	-	-	-	-	3,420,000	3,420,000	2016	2023
	5161966511	Woodward WWTP - Digester 3 & 5 (CASH FLOWED)	8,650,000	8,650,000	4,710,000	4,710,000	-	-	-	-	-	-	-	-	13,360,000	13,360,000	2019	2022
	5162067425	Hillside SPS (DC006) Upgrades	1,130,000	1,130,000	280,000	280,000	550,000	550,000	-	-	-	-	-	-	1,960,000	1,960,000	2020	2023
	5162111101	Road Cut Restoration Program	1,800,000	1,800,000	2,315,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	10,800,000	10,800,000	20,315,000	19,800,000	2021	2046
	5162160302	Emergency Repairs - Cross Connections Program	500,000	500,000	1,470,000	300,000	400,000	400,000	400,000	400,000	400,000	400,000	350,000	350,000	3,520,000	2,350,000	2021	2026
	5162160390	Wastewater System Lining Program	4,050,000	4,050,000	4,050,000	3,650,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	24,300,000	24,300,000	44,550,000	44,150,000	2021	2046
	5162160522	Sewer Lateral Management Program (WWC)	4,250,000	4,250,000	4,000,000	4,000,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	21,000,000	21,000,000	39,750,000	39,750,000	2021	2046
	5162160533	Trenchless Manhole Rehabilitation	70,000	70,000	250,000	180,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,570,000	2,500,000	2021	2046
	5162160574	Capital Programming Sewer Inspection & Assessment	500,000	500,000	1,150,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	4,200,000	4,200,000	7,950,000	7,500,000	2021	2046
	5162160575	Mainline Sewer Condition Assessment Program	1,140,000	1,140,000	2,030,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	6,840,000	6,840,000	13,430,000	12,540,000	2021	2046
	5162160576	Sewer Lateral Condition Assessment Program	540,000	540,000	790,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,370,000	2,370,000	4,450,000	3,910,000	2021	2046
	5162161444	Sewer Lateral Replace/Rehab Program	3,600,000	3,600,000	3,620,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	20,100,000	20,100,000	36,620,000	36,100,000	2021	2046
	5162166713	Wastewater Maintenance Capital Program	1,500,000	1,500,000	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	19,500,000	19,500,000	2021	2046
	5162166810	Woodward WWTP - Maintenance Building (CASH FLOWED)	500,000	500,000	500,000	500,000	-	-	-	-	-	-	-	-	1,000,000	1,000,000	2018	2022
	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	620,000	620,000	330,000	330,000	2,090,000	2,090,000	-	-	-	-	-	-	3,040,000	3,040,000	2021	2023
	5162167501	Odour Control Program & Media Replacement	150,000	150,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	1,150,000	1,150,000	2021	2022
	5162169075	City Environmental Lab Improvements Program	410,000	410,000	340,000	340,000	190,000	190,000	90,000	90,000	50,000	50,000	300,000	300,000	1,380,000	1,380,000	2021	2046
	5162261741	Resetting or Adjusting of Wastewater Utility Structures	-	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,500,000	2,500,000	2022	2046
	5162262250	Eastern Sewer Interceptor (ESI) - South Service - Fruitland to Green	-	-	8,000,000	4,932,415	-	-	-	-	-	-	-	-	8,000,000	4,932,415	2022	2022
	5162266011	Woodward WWTP - Secondary Digester	-	-	-	-	500,000	500,000	6,000,000	6,000,000	-	-	-	-	6,500,000	6,500,000	2022	2025
	5162266712	Wastewater Maintenance - Rebuild, Replacement and New Capital	1,500,000	1,500,000	600,000	600,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	1,800,000	4,800,000	4,800,000	2021	2046
	5162266911	Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)	-	-	3,450,000	3,450,000	-	-	5,900,000	5,900,000	5,900,000	5,900,000	-	-	15,250,000	15,250,000	2022	2025
	5162267375	Beach Boulevard (HC051) Wastewater Pump Station Upgrades	-	-	440,000	440,000	1,150,000	1,150,000	-	-	-	-	-	-	1,590,000	1,590,000	2022	2023
	5162267376	Rockcliffe (DC015) Wastewater Pumping Station Upgrades	-	-	990,000	990,000	3,350,000	3,350,000	-	-	-	-	-	-	4,340,000	4,340,000	2022	2023
	5162267585	Diesel Fuel Storage Compliance Upgrades	-	-	1,100,000	1,100,000	1,400,000	1,400,000	-	-	-	-	-	-	2,500,000	2,500,000	2022	2023
	5162360310	Regional Road 56																

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5162360372	Large Sewer Lining - Blanshard St: Locke St to Poulette St	-	-	-	-	2,300,000	2,300,000	-	-	-	-	-	-	2,300,000	2,300,000	2023	2023
	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	-	-	1,100,000	1,100,000	930,000	930,000	12,955,000	12,955,000	12,955,000	12,955,000	-	-	27,940,000	27,940,000	2022	2026
	5162441226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	-	-	-	-	2,625,000	-	5,125,000	5,125,000	-	-	-	-	7,750,000	5,125,000	2023	2024
	5162461420	West 31st 400mm Forcemain Replacement & Rehabilitation	-	-	-	-	-	-	1,600,000	1,600,000	-	-	-	-	1,600,000	1,600,000	2024	2024
	5162466301	Woodward WWTP North Plant Rehabilitation (CASH FLOWED)	-	-	-	-	2,200,000	2,200,000	2,200,000	2,200,000	1,200,000	1,200,000	70,600,000	70,600,000	76,200,000	76,200,000	2023	2028
	5162560572	Large Sewer Lining: Upper James - Inverness to James St S	-	-	-	-	-	-	-	-	3,000,000	3,000,000	-	-	3,000,000	3,000,000	2025	2025
	5162560592	Strathearne - Barton to Brampton	-	-	-	-	-	-	-	-	7,280,000	7,280,000	-	-	7,280,000	7,280,000	2024	2025
	5162567751	Wastewater Outstation Upgrades - Asset Management Program	-	-	-	-	-	-	-	-	4,500,000	4,500,000	27,000,000	27,000,000	31,500,000	31,500,000	2024	2046
	5165522888	Mill St Bridge - Sanitary Sewer Erosion Protection	-	-	350,000	350,000	-	-	-	-	-	-	-	-	350,000	350,000	2022	2022
Rehabilitation / Renovation Total			461,127,000	428,122,000	83,780,253	70,567,138	46,955,000	41,560,000	54,380,000	53,856,470	64,545,000	64,021,470	235,980,000	232,838,820	946,767,253	890,965,898		
Relocation	5162255900	EA - McMaster Innovation Park (MIP) Storm Sewer Relocation	-	-	5,650,000	5,650,000	-	-	-	-	-	-	-	-	5,650,000	5,650,000	2022	2022
Relocation Total			-	-	5,650,000	5,650,000	-	-	-	-	-	-	-	-	5,650,000	5,650,000		
Replacement	5161966151	SCADA Maintenance Program	1,650,000	1,650,000	150,000	150,000	275,000	275,000	275,000	275,000	900,000	900,000	2,275,000	2,275,000	5,525,000	5,525,000	2019	2046
	5161968920	Fennell/Greenhill Drop Shaft	-	-	-	-	-	-	-	-	-	-	14,850,000	14,850,000	14,850,000	14,850,000	2019	2030
	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations	100,000	100,000	219,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	600,000	600,000	1,219,000	1,100,000	2021	2046
	5162160711	PW Capital Water Consumption Program	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,750,000	2,750,000	2021	2046
	5162160820	Open Cut Repairs for CIPP Program	560,000	500,000	620,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,680,000	5,500,000	2021	2046
	5162161740	Unscheduled Manhole and Sewermain Replacement Program	610,000	610,000	750,000	750,000	650,000	650,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	6,010,000	6,010,000	2021	2046
	5162171074	Contingency for Unscheduled Works Program	-	-	180,000	180,000	-	-	180,000	180,000	-	-	540,000	540,000	900,000	900,000	2022	2046
	5162367065	Replacement of the Eastport Sanitary Pumping Station	-	-	-	-	1,100,000	1,100,000	280,000	280,000	550,000	550,000	550,000	550,000	2,480,000	2,480,000	2023	2026
	5162418420	Grindstone Creek Utility Bridge	-	-	-	-	-	-	3,500,000	3,500,000	-	-	-	-	3,500,000	3,500,000	2024	2028
Replacement Total			3,170,000	3,110,000	2,169,000	1,930,000	2,875,000	2,875,000	5,585,000	5,585,000	2,800,000	2,800,000	26,315,000	26,315,000	42,914,000	42,615,000		
Safety/ Security	5162266351	Woodward SCADA OT (Operating Technology) Security Program	-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000	2022	2022
Safety/ Security Total			-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000		
Staffing Costs	5162101099	Engineering Services Staffing Costs - Wastewater	4,700,000	4,700,000	4,500,000	3,922,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,122,000	2021	2046
Staffing Costs Total			4,700,000	4,700,000	4,500,000	3,922,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,122,000		
Grand Total			548,387,000	437,402,000	169,020,253	105,784,138	82,005,000	54,946,470	106,565,000	76,931,470	93,275,000	86,711,470	643,149,000	348,743,820	1,642,401,253	1,110,519,368		

**SOURCE OF CAPITAL FINANCING  
2022 to 2031 RATE PROGRAM CAPITAL BUDGET  
\$(000'S)**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022 to 2031
<b>STORM SEWERS</b>											
<b>Capital Program</b>	<b>36,145</b>	<b>29,890</b>	<b>36,475</b>	<b>23,530</b>	<b>20,280</b>	<b>44,680</b>	<b>45,190</b>	<b>44,310</b>	<b>36,290</b>	<b>38,090</b>	<b>354,880</b>
<b><u>Source of Funding</u></b>											
Subsidy/Other Revenue	75	75	2,075	5,275	6,015	75	75	75	75	75	13,890
Development Charges	19,160	10,175	10,055	4,000	4,000	4,000	4,000	4,880	4,000	4,660	68,930
Reserves & Other Internal Sources	5,145	-	-	-	-	-	-	-	-	-	5,145
Contribution from Operating	11,765	19,640	24,345	14,255	10,265	32,055	34,265	33,855	32,215	33,355	246,015
External Debt	-	-	-	-	-	8,550	6,850	5,500	-	-	20,900
<b>Total</b>	<b>36,145</b>	<b>29,890</b>	<b>36,475</b>	<b>23,530</b>	<b>20,280</b>	<b>44,680</b>	<b>45,190</b>	<b>44,310</b>	<b>36,290</b>	<b>38,090</b>	<b>354,880</b>

**City of Hamilton**  
**Storm Water Management**  
**2022 Capital Budget Project List**  
**(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5182271328	Southcote - Garner to Highway 403 Bridge	1,500,000						-	1,500,000	
<b>Coordinated - Network Extension Total</b>			<b>1,500,000</b>						-	<b>1,500,000</b>	
Coordinated - Replacement	5182172205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,880,000				1,880,000		-	-	
	5182271226	Mud St (Phase 02) - Isaac Brock Dr to Upper Centennial Pkwy	180,000						-	180,000	
	5182271312	Streathearne - Main to Britannia	1,000,000						-	1,000,000	
<b>Coordinated - Replacement Total</b>			<b>3,060,000</b>				<b>1,880,000</b>		-	<b>1,180,000</b>	
Enhancement	5181823155	South St E and East St S in Dundas Drainage Improvement - SERG	110,000						-	110,000	
	5181872295	SERG - Winona Area Drainage Improvements	440,000						-	440,000	
	5181967500	DMAF- CSO Backflow Preventors	390,000						-	390,000	
	5182255688	EA for Rosedale Stormwater Management Facility - Outlet to Red Hill Creek	450,000						-	450,000	
<b>Enhancement Total</b>			<b>1,390,000</b>						-	<b>1,390,000</b>	
Expansion / Extension	5182280290	SWMP SL12 Block 3 (1090 Barton Street)	10,330,000			10,330,000			-		
	5182280291	SWMP SM21 Nash 2/3 Development	4,745,000			4,745,000			-		
	5182280292	SWMP SM17 198 Highland Road West	4,085,000			4,085,000			-		
<b>Expansion / Extension Total</b>			<b>19,160,000</b>			<b>19,160,000</b>			-		
Feasibility Plans / EA's/ Studies	5182095800	Flooding & Drainage Master Plan Capital Improvements	450,000						-	450,000	
	5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services	250,000						-	250,000	
	5182149555	QA-QC Service Contract Program	150,000						-	150,000	
	5182155421	Stormwater System Planning Program	380,000						-	380,000	
	5182155556	Mapping Update Program	40,000						-	40,000	
	5182174951	Shoreline Protection Program	150,000						-	150,000	
	5182174680	Storm Sewer Network Planning - Transportation Program	260,000						-	260,000	
	5182255210	Storm Water Outfall Investigations	300,000						-	300,000	
<b>Feasibility Plans / EA's/ Studies Total</b>			<b>1,980,000</b>						-	<b>1,980,000</b>	
Licenses	5182162073	Field Data Systems Program	110,000						-	110,000	
<b>Licenses Total</b>			<b>110,000</b>						-	<b>110,000</b>	
Rehabilitation / Renovation	5181767723	Grafton and Centennial Stormwater Pumping Stations - Standby Power	450,000						-	450,000	
	5182117152	Right of Way Drainage Program	1,500,000				1,500,000		-	-	
	5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.	500,000					500,000	-	-	
	5182160533	Trenchless Manhole Rehabilitation	70,000						-	70,000	
	5182160622	SWM Facility Maintenance Program	1,500,000				220,000		-	1,280,000	
	5182160722	Municipal Drain Program	100,000		75,000				-	25,000	
	5182274950	Watercourse and Drainage Channel Maintenance	1,445,000					545,000	-	900,000	
<b>Rehabilitation / Renovation Total</b>			<b>5,565,000</b>		<b>75,000</b>		<b>1,720,000</b>	<b>1,045,000</b>	-	<b>2,725,000</b>	
Replacement	5182017040	Highway 97 - Culvert Improvement Project	300,000						-	300,000	
	5182117458	Catch Basin Replacement/Rehabilitation Program	1,000,000					500,000	-	500,000	
	5182161740	Unscheduled Manhole and Sewermain Replacement Program	50,000						-	50,000	
	5182172074	Contingency for Unscheduled Works Program	180,000						-	180,000	
	5182260220	Culvert FLA-3008 - Old Brock Rd 100m w/o Brock	150,000						-	150,000	
<b>Replacement Total</b>			<b>1,680,000</b>					<b>500,000</b>	-	<b>1,180,000</b>	
Staffing Costs	5182101099	Engineering Services Staffing Costs - Storm	1,700,000						-	1,700,000	
<b>Staffing Costs Total</b>			<b>1,700,000</b>						-	<b>1,700,000</b>	
<b>Grand Total</b>			<b>36,145,000</b>		<b>75,000</b>	<b>19,160,000</b>	<b>3,600,000</b>	<b>1,545,000</b>	-	<b>11,765,000</b>	



**CITY OF HAMILTON**  
**STORM WATER MANAGEMENT**  
**2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start	End
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Year	Year
Coordinated - Network Extension	5182271328	Southcote - Garner to Highway 403 Bridge	-	-	1,500,000	1,500,000	-	-	-	-	-	-	-	-	1,500,000	1,500,000	2022	2022
	5182372021	Highland Rd W - First Rd W to Upper Centennial	-	-	-	-	1,600,000	1,600,000	-	-	-	-	-	-	1,600,000	1,600,000	2023	2023
	5182871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	2,500,000	2,500,000	2,500,000	2,500,000	2028	2028
	5182971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	1,250,000	1,250,000	1,250,000	1,250,000	2029	2029
	5182971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	650,000	650,000	650,000	650,000	2029	2029
	5183180086	Parkside Dr Urbanization - Phase 2 - Storm Sewer	-	-	-	-	-	-	-	-	-	-	1,100,000	440,000	1,100,000	440,000	2022	2031
<b>Coordinated - Network Extension Total</b>			-	-	1,500,000	1,500,000	1,600,000	1,600,000	-	-	-	-	5,500,000	4,840,000	8,600,000	7,940,000		
Coordinated - Replacement	5182172205	Glennmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	-	-	1,880,000	-	-	-	-	-	-	-	-	-	1,880,000	-	2021	2022
	5182271226	Mud St (Phase 02) - Isaac Brock Dr to Upper Centennial Pkwy	-	-	180,000	180,000	-	-	-	-	-	-	-	-	180,000	180,000	2022	2022
	5182271312	Streathearne - Main to Britannia	-	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	1,000,000	1,000,000	2022	2022
	5182372304	Hatt & Bond - King to Market	-	-	-	-	2,100,000	2,100,000	-	-	-	-	-	-	2,100,000	2,100,000	2023	2023
	5182772021	Industrial - Ottawa to Gage / Gage / Depew	-	-	-	-	-	-	-	-	-	-	400,000	400,000	400,000	400,000	2027	2027
	5182772214	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	3,190,000	3,190,000	3,190,000	3,190,000	2027	2027
	5182872208	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	700,000	700,000	700,000	700,000	2028	2028
	5182971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	1,200,000	1,200,000	1,200,000	1,200,000	2029	2029
	5182972311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	130,000	130,000	130,000	130,000	2029	2029
	5183072298	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	-	-	-	-	-	-	-	-	-	-	850,000	850,000	850,000	850,000	2030	2030
<b>Coordinated - Replacement Total</b>			-	-	3,060,000	1,180,000	2,100,000	2,100,000	-	-	-	-	6,470,000	6,470,000	11,630,000	9,750,000		
Coordinated - Upgrade	5183072293	Hughson - Wilson to Barton	-	-	-	-	-	-	-	-	-	-	280,000	280,000	280,000	280,000	2030	2030
<b>Coordinated - Upgrade Total</b>			-	-	-	-	-	-	-	-	-	-	280,000	280,000	280,000	280,000		
Enhancement	5181562590	SWMP Retrofits	460,000	460,000	-	-	660,000	660,000	-	-	-	-	-	-	1,120,000	1,120,000	2015	2023
	5181823155	South St E and East St S in Dundas Drainage Improvement - SERG	30,000	30,000	110,000	110,000	-	-	1,100,000	1,100,000	-	-	-	-	1,240,000	1,240,000	2018	2024
	5181872295	SERG - Winona Area Drainage Improvements	470,000	470,000	440,000	440,000	-	-	-	-	-	-	1,270,000	1,270,000	2,180,000	2,180,000	2018	2028
	5181967500	DMAF- CSO Backflow Preventors	1,050,000	1,050,000	390,000	390,000	2,250,000	2,250,000	-	-	-	-	-	-	3,690,000	3,690,000	2019	2023
	5182255688	EA for Rosedale Stormwater Management Facility - Outlet to Red Hill Creek	-	-	450,000	450,000	-	-	-	-	-	-	-	-	450,000	450,000	2022	2022
	5182696475	Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	-	-	-	-	-	-	-	-	67,500,000	67,500,000	2021	2029
<b>Enhancement Total</b>			2,010,000	2,010,000	1,390,000	1,390,000	2,910,000	2,910,000	1,100,000	1,100,000	-	-	68,770,000	68,770,000	76,180,000	76,180,000		
Expansion / Extension	5182280290	SWMP SL12 Block 3 (1090 Barton Street)	-	-	10,330,000	-	-	-	-	-	-	-	-	-	10,330,000	-	2022	2022
	5182280291	SWMP SM21 Nash 2/3 Development	-	-	-	-	-	-	-	-	-	-	-	-	4,745,000	-	2022	2022
	5182280292	SWMP SM17 198 Highland Road West	-	-	4,085,000	-	-	-	-	-	-	-	-	-	4,085,000	-	2022	2022
<b>Expansion / Extension Total</b>			-	-	19,160,000	-	-	-	-	-	-	-	-	19,160,000	-			
Feasibility Plans / EA's / Studies	5182095800	Flooding & Drainage Master Plan Capital Improvements	380,000	380,000	450,000	450,000	550,000	550,000	440,000	440,000	170,000	170,000	-	-	1,990,000	1,990,000	2020	2025
	5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,750,000	2,750,000	2021	2046
	5182149555	QA-QC Service Contract Program	-	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,500,000	1,500,000	2021	2046
	5182155347	Watercourse Erosion Sites Rehabilitation and Mitigation	280,000	280,000	-	-	280,000	280,000	280,000	280,000	3,000,000	3,000,000	6,720,000	6,720,000	10,560,000	10,560,000	2021	2035
	5182155421	Stormwater System Planning Program	-	-	380,000	380,000	380,000	380,000	380,000	380,000	380,000	380,000	2,280,000	2,280,000	3,800,000	3,800,000	2022	2046
	5182155556	Mapping Update Program	97,000	97,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	497,000	497,000	2021	2046
	5182157545	Stormwater Computer Model	-	-	-	-	1,080,000	1,080,000	1,080,000	1,080,000	60,000	60,000	1,680,000	1,680,000	3,900,000	3,900,000	2023	2046
	5182167751	Stormwater Infrastructure Criticality Assessment	280,000	280,000	-	-	280,000	280,000	280,000	280,000	280,000	280,000	1,680,000	1,680,000	2,800,000	2,800,000	2021	2046
	5182174680	Storm Sewer Network Planning - Transportation Program	660,000	660,000	260,000	260,000	660,000	660,000	660,000	660,000	660,000	660,000	3,960,000	3,960,000	6,860,000	6,860,000	2021	2046
	5182174840	Stormwater Analysis for Bridge, Culvert and Ditch Replacement Projects	500,000	500,000	-	-	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,000,000	5,000,000	2021	2046
	5182174951	Shoreline Protection Program	1,320,000	1,320,000	150,000	150,000	400,000	400,000	750,000	750,000	150,000	150,000	2,600,000	2,600,000	5,370,000	5,370,000	2021	2046
	5182255210	Storm Water Outfall Investigations	-	-	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	1,800,000	3,000,000	3,000,000	2022	2046
	5182355075	Watershed Project Coordination and Stewardship Action Plans	-	-	-	-	-	-	170,000	170,000	170,000	170,000	1,020,000	1,020,000	1,360,000	1,360,000	2024	2046
	5182455422	Stormwater Master Plan	-	-	-	-	-	-	1,100,000	220,000	-	-	1,100,000	220,000	2,200,000	440,000	2024	2029
<b>Feasibility Plans / EA's / Studies Total</b>			3,767,000	3,767,000	1,980,000	1,980,000	4,870,000	4,870,000	6,380,000	5,500,000	6,110,000	6,110,000	28,480,000	27,600,000	51,587,000	49,827,000		
Licenses	5182162073	Field Data Systems Program	164,000	164,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,264,000	1,264,000	2021	2046
<b>Licenses Total</b>			164,000	164,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,264,000	1,264,000		
New	5182067875	Beach Strip Stormwater Pumping Stations (CASH FLOWED)	30,000	30,000	-	-	1,795,000	1,795,000	7,100,000	7,100,000	7,080,000	7,080,000	-	-	16,005,000	16,005,000	2020	2025
	5182180090	Storm Water Management Program	4,000,000	-	-	-	4,000,000	-	4,000,000	-	4,000,000	-	24,000,000	-	40,000,000	-	2021	2046

**CITY OF HAMILTON**  
**STORM WATER MANAGEMENT**  
**2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5182323875	Beach Strip Stormwater Collection System Improvements	-	-	-	-	150,000	150,000	500,000	500,000	-	-	2,350,000	2,350,000	3,000,000	3,000,000	2022	2032
	5182380390	SWMP A14 Springbrook Corners	-	-	-	-	1,290,000	-	-	-	-	-	-	-	1,290,000	-	2023	2023
	5182380391	SWMP SL3 Block 2 (844 Barton Street)	-	-	-	-	3,320,000	-	-	-	-	-	-	-	3,320,000	-	2023	2023
	5182380864	SWMP W6 Waterdown Bay (Saleem Property)	-	-	-	-	1,565,000	-	-	-	-	-	-	-	1,565,000	-	2023	2023
	5182460214	SERG - Parkside & Kipling Stormwater Facility - CASH FLOW	-	-	-	-	-	-	6,100,000	6,100,000	-	-	6,510,000	6,510,000	12,610,000	12,610,000	2023	2038
	5182480490	SWMP H28 305 Stone Church Road West	-	-	-	-	-	-	5,175,000	-	-	-	-	-	5,175,000	-	2024	2024
<b>New Total</b>			<b>4,030,000</b>	<b>30,000</b>	<b>-</b>	<b>-</b>	<b>12,120,000</b>	<b>1,945,000</b>	<b>22,875,000</b>	<b>13,700,000</b>	<b>11,080,000</b>	<b>7,080,000</b>	<b>32,860,000</b>	<b>8,860,000</b>	<b>82,965,000</b>	<b>31,615,000</b>		
Rehabilitation / Renovation	5181767723	Grafton and Centennial Stormwater Pumping Stations - Standby Power	1,700,000	1,700,000	450,000	450,000	-	-	-	-	-	-	50,000	50,000	2,200,000	2,200,000	2017	2026
	5182117152	Right of Way Drainage Program	1,500,000	1,500,000	1,500,000	-	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	9,000,000	9,000,000	16,500,000	15,000,000	2021	2046
	5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.	250,000	250,000	500,000	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	3,000,000	2,500,000	2021	2046
	5182160533	Trenchless Manhole Rehabilitation	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	420,000	420,000	770,000	770,000	2021	2046
	5182160622	SWM Facility Maintenance Program	2,000,000	345,680	1,500,000	1,280,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	7,200,000	7,200,000	14,300,000	12,425,680	2021	2046
	5182160722	Municipal Drain Program	700,000	227,000	100,000	25,000	100,000	25,000	100,000	25,000	100,000	25,000	600,000	150,000	1,700,000	477,000	2021	2046
	5182274950	Watercourse and Drainage Channel Maintenance	-	-	1,445,000	900,000	460,000	460,000	460,000	860,000	860,000	860,000	3,300,000	3,300,000	6,525,000	5,980,000	2022	2046
	5182761073	Large Sewermain Lining - Stanley Ave	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027
<b>Rehabilitation / Renovation Total</b>			<b>6,220,000</b>	<b>4,092,680</b>	<b>5,565,000</b>	<b>2,725,000</b>	<b>3,580,000</b>	<b>3,505,000</b>	<b>3,580,000</b>	<b>3,505,000</b>	<b>3,980,000</b>	<b>3,905,000</b>	<b>24,070,000</b>	<b>23,620,000</b>	<b>46,995,000</b>	<b>41,352,680</b>		
Replacement	5182017040	Highway 97 - Culvert Improvement Project	500,000	500,000	300,000	300,000	-	-	-	-	-	-	-	-	800,000	800,000	2020	2022
	5182117458	Catch Basin Replacement/Rehabilitation Program	500,000	500,000	1,000,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	6,000,000	5,500,000	2021	2046
	5182161740	Unscheduled Manhole and Sewermain Replacement Program	118,373	118,373	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	300,000	300,000	618,373	618,373	2021	2046
	5182172074	Contingency for Unscheduled Works Program	-	-	180,000	180,000	-	-	180,000	180,000	-	-	540,000	540,000	900,000	900,000	2022	2046
	5182260220	Culvert FLA-3008 - Old Brock Rd 100m w/o Brock	-	-	150,000	150,000	350,000	350,000	-	-	-	-	-	-	500,000	500,000	2022	2023
	5182872295	Main - Prospect to Gage - SERG B-3	-	-	-	-	-	-	-	-	-	-	1,710,000	1,710,000	1,710,000	1,710,000	2028	2028
<b>Replacement Total</b>			<b>1,118,373</b>	<b>1,118,373</b>	<b>1,680,000</b>	<b>1,180,000</b>	<b>900,000</b>	<b>900,000</b>	<b>730,000</b>	<b>730,000</b>	<b>550,000</b>	<b>550,000</b>	<b>5,550,000</b>	<b>5,550,000</b>	<b>10,528,373</b>	<b>10,028,373</b>		
Staffing Costs	5182101099	Engineering Services Staffing Costs - Storm	1,100,000	1,100,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	10,200,000	10,200,000	18,100,000	18,100,000	2021	2046
<b>Staffing Costs Total</b>			<b>1,100,000</b>	<b>1,100,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>10,200,000</b>	<b>10,200,000</b>	<b>18,100,000</b>	<b>18,100,000</b>		
<b>Grand Total</b>			<b>18,409,373</b>	<b>12,282,053</b>	<b>36,145,000</b>	<b>11,765,000</b>	<b>29,890,000</b>	<b>19,640,000</b>	<b>36,475,000</b>	<b>26,345,000</b>	<b>23,530,000</b>	<b>19,455,000</b>	<b>182,840,000</b>	<b>156,850,000</b>	<b>327,289,373</b>	<b>246,337,053</b>		

**CITY OF HAMILTON  
2022 Rate Program Capital Budget Summary  
(\$000'S)**

							Financing Source	
Gross Costs	Subsidy/ Other Revenues	Development Charges	WIP / Other Internal Sources	Reserves	Net Cost	Contribution From Operating	External Borrowings (Debentures)	
<b>2022</b> Coordinated - Network Extension	15,450	998	10,932	-	-	3,520	2,000	1,520
Coordinated - Other	3,320	-	-	-	-	3,320	3,320	-
Coordinated - Replacement	14,820	-	-	1,990	1,880	10,950	5,150	5,800
Coordinated Replacement (50/50)	4,130	-	-	-	-	4,130	4,130	-
Demolition / Disposal	13,690	-	-	-	-	13,690	13,690	-
Enhancement	2,210	-	-	-	560	1,650	1,650	-
Expansion / Extension	30,190	3,500	26,190	-	-	500	-	500
Feasibility Plans / EA's/ Studies	35,711	-	14,810	356	9,050	11,495	11,495	-
Licenses	430	-	-	100	-	330	330	-
New	35,982	-	25,800	1,162	640	8,380	4,130	4,250
Rehabilitation / Renovation	118,419	75	6,630	8,296	15,488	87,931	56,551	31,380
Relocation	5,650	-	-	-	-	5,650	-	5,650
Replacement	18,454	3,000	165	2,284	1,300	11,705	14,705	-
Safety/ Security	1,280	-	-	-	-	1,280	1,280	-
Staffing Costs	10,700	-	-	1,042	-	9,658	9,658	-
<b>Total</b>	<b>310,436</b>	<b>7,573</b>	<b>84,527</b>	<b>15,230</b>	<b>28,918</b>	<b>174,189</b>	<b>128,089</b>	<b>49,100</b>

**City of Hamilton Treasurer's Updated 2021 Annual Repayment Limit**

Annual Repayment Limit - <i>effective January 1, 2021, as prepared by the Ministry of Municipal Affairs and Housing on January 29, 2021, based on 2019 Financial Information Return</i>	\$291,914,218
Annual debt service charges on City Municipal debt approved to-date 2021 and prior years but not yet issued (\$584.2 M @ 3% for 15-year term)	-\$48,933,337
Annual debt service charges on City Municipal debt in respect of ICIP Transit debt approved but not yet issued (\$172.8 M @ 3% for 15-year term)	-\$14,478,635
Annual debt service charges on City Municipal debt in respect of West Harbour debt approved but not yet issued (\$2.9 M @ 3% for 15-year term)	-\$245,436
Annual debt service charges on City Housing Hamilton debt approved but not yet issued and guaranteed by City of Hamilton (\$135.9 M @ 5% for 30-year term)	-\$8,840,490
Annual debt service charges on Municipal and Tax Supported Development Charges debt approved but not yet issued - Police Station 40 (\$8 M @ 3% for 15-year term)	-\$670,133
Annual debt service charges in 2021 for debenture issue of \$51.705 M;	-\$4,110,548
Annual debt service charges on debentures discharged in 2019 and 2020	\$4,973,669
Adjustment for annual debt service charges on outstanding City Housing Hamilton mortgages and City of Hamilton Tangible Capital Leases	<u>\$357,797</u>
<b>Updated 2021 Annual Repayment Limit</b> - <i>a calculation by the Treasurer representing an estimate of the maximum amount available to commit to annual debt service charges</i>	<b>\$219,967,107</b>
Debenture amount at 3% interest rate for 15-year term (amortizer) corresponding to the annual debt service charges of \$219,967,107	\$2,625,953,039

**Authority:** Item ,  
Report (XXX)  
CM:  
Ward: City Wide

**Bill No.**

**CITY OF HAMILTON  
BY-LAW NO. 21-**

**To Amend City of Hamilton By-law No. 03-272,  
being a By-law to Impose Fees and Charges Respecting the Use of the City of  
Hamilton Sanitary Sewage System and to Implement a Wastewater Abatement  
Program**

**WHEREAS** Council enacted a by-law to impose fees and charges respecting the use of the City of Hamilton Sanitary Sewage system and to implement a wastewater abatement program for the City of Hamilton, being City of Hamilton By-law No.03-272;

**AND WHEREAS** Council wishes to amend By-law No. 03-272;

**NOW THEREFORE** the Council of the City of Hamilton hereby enacts as follows:

1. The amendments in this By-law include any necessary grammatical, numbering and lettering changes.
2. Section 1 of By-law 03-272 is amended to add "s" in the definitions as follows:  
  
(s) "Water and Wastewater/Storm Fees and Charges By-law" means the City of Hamilton's Water and Wastewater/Storm Fees and Charges By-law as may be amended, restated or replaced from time to time;
3. Sections 3, 4 and 5 of By-law 03-272 are amended by replacing "Schedule "A" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law" in all instances where they appear.
4. Section 9 of By-law 03-272 is amended by replacing "Schedule "A" attached to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".

5. Section 10 of By-law 03-272 is amended by adding "and the Water and Wastewater/Storm Fees and Charges By-law" after "to this By-law".
6. Schedule "A" to By-law 03-272 is deleted in its entirety.
7. Section 1 of Schedule "B" to By-law 03-272 is deleted in its entirety.
8. Section 29 of By-law 03-272 is amended by replacing "Schedules "A" and "B"" with "Schedule "A"".
9. This By-law shall come into effect on the day it is passed.
10. In all other respects, By-law 03-272 is confirmed.

**PASSED** this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

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F. Eisenberger  
Mayor

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A. Holland  
City Clerk

**Authority:** Item ,  
Report (XXX)  
CM:  
Ward: City Wide

**Bill No.**

**CITY OF HAMILTON  
BY-LAW NO. 21-**

**To Amend City of Hamilton By-law No. 06-026,  
being a By-law to Regulate the Installation, Connection and Use of Sewers and  
Drains in the City of Hamilton**

**WHEREAS** Council enacted a by-law to impose fees and charges respecting the use of the City of Hamilton Sanitary Sewage system and to implement a wastewater abatement program for the City of Hamilton, being City of Hamilton By-law No.06-026;

**AND WHEREAS** Council wishes to amend By-law No. 06-026;

**NOW THEREFORE** the Council of the City of Hamilton hereby enacts as follows:

1. The amendments in this By-law include any necessary grammatical, numbering and lettering changes.
2. Section 1. of By-law 06-026 is amended to add as "uu" in the definitions section, the following:

"Water and Wastewater/Storm Fees and Charges By-law" means the City of Hamilton's Water and Wastewater/Storm Fees and Charges By-law, as may be amended, restated or replaced from time to time".
3. Section 6(7)(d) of By-law 06-026 is amended by replacing "Schedule "A"" with "the Water and Wastewater/Storm Fees and Charges By-law".
4. Sections 10(3) and 10(5) of By-law 06-026 is amended by replacing "section 12 of Schedule "A" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law" in all instances.

5. References to "Schedule "B"" in By-law 06-026 shall be replaced, in all instances to "Schedule "A"".
6. Sections 10(3) and 10(5)15 of By-law 06-026 is amended by replacing "Schedules "A" and "B" form" to "Schedule "A" forms" in all instances.
7. This By-law shall come into effect on the day it is passed.
8. In all other respects, By-law 06-026 is confirmed.

**PASSED** this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

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F. Eisenberger  
Mayor

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A. Holland  
City Clerk



**Authority:** Item ,  
Report (XXX)  
CM:  
Ward: City Wide

**Bill No.**

**CITY OF HAMILTON  
BY-LAW NO. 21-**

**To Amend City of Hamilton By-law No. R84-026,  
being a By-law Respecting the Management and Maintenance of the Water Works  
Systems of the Regional Municipality of Hamilton-Wentworth and the  
Establishment of Water Rates and Charges**

**WHEREAS** Council enacted a by-law to impose fees and charges respecting the use of the City of Hamilton Sanitary Sewage system and to implement a wastewater abatement program for the City of Hamilton, being City of Hamilton By-law No. R84-026;

**AND WHEREAS** Council wishes to amend By-law No. R84-026;

**NOW THEREFORE** the Council of the City of Hamilton hereby enacts as follows:

1. The amendments in this By-law include any necessary grammatical, numbering and lettering changes.
2. Section 1 of By-law R84-026 is amended to add as "v" in the definitions the following:

"Water and Wastewater/Storm Fees and Charges By-law" means the City of Hamilton's Water and Wastewater/Storm Fees and Charges By-law" as may be amended, restated or replaced from time to time.
3. Sections 4(b), 4(16), 4(17) and 9 of By-law R84-026 is amended by replacing "Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law" in all instances.
4. Section 4(15)(a) of By-law R84-026 is amended by replacing "Section 2 of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".

5. Section 4(15)(d) of By-law R84-026 is amended by replacing "section 6 of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
6. Section 8(6) of By-law R84-026 is amended by replacing "section 1(b) of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
7. Section 12(1) of By-law R84-026 is amended by adding ", as well as the Water and Wastewater/Storm Fees and Charges By-law" after "it's Schedules".
8. Sections 12(5)(a)(ii) and 12(5)(b) of By-law R84-026 is amended by replacing "Schedule "A" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law" in all instances.
9. Sections 12(5)(a)(ii) and 12(5)(b) of By-law R84-026 is amended by replacing "Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law" in all instances.
10. Section 12(5)(c) of By-law R84-026 is amended by replacing "Section 8 of Schedule "E"" with "the Water and Wastewater/Storm Fees and Charges By-law".
11. Section 12(6) of By-law R84-026 is amended by replacing "section 1 of Schedule "C" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
12. Section 12(6) of By-law R84-026 is amended by replacing "said Schedule "C"" with "aforementioned Water and Wastewater/Storm Fees and Charges By-law,".
13. Section 12(7) of By-law R84-026 is amended by replacing "section 2 of Schedule "C" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
14. Section 12(8) of By-law R84-026 is amended by replacing "Section 3 of Schedule "C" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".

15. Section 12(9) of By-law R84-026 is amended by replacing "section 4 of Schedule "C" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
16. Section 13(6)(a) of By-law R-84-026 is amended by replacing "section 5, of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
17. Section 18(4) of By-law R84-026 is amended by replacing "section 3 of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
18. Section 18(4) of By-law R84-026 is amended by replacing "section 4 of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
19. Section 18(8) of By-law R-84-026 is amending by replacing "section 7 of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
20. Section 18. (11) of By-law R-84-026 is amended by replacing "Schedule "E" to this By-law for service calls not otherwise specified in Schedule "E"" with "the Water and Wastewater/Storm Fees and Charges By-law for service calls not otherwise specified in the aforementioned Water and Wastewater/Storm Fees and Charges By-Law".
21. All references to "Schedule "B"" in this By-law shall be replaced with "Schedule "A"" in all instances.
22. All references to "Schedule "D"" in this By-law shall be replaced with "Schedule "B"" in all instances.
23. All references to "Schedule "F"" in this By-law shall be replaced with "Schedule "C"" in all instances.
24. Section 19. of By-law R84-026 is amended by replacing "Schedules "A" to "F"" with "Schedules "A" to "C"".
25. This By-law shall come into effect on the day it is passed.
26. In all other respects, By-law R084-026 is confirmed.

**PASSED** this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

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F. Eisenberger  
Mayor

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A. Holland  
City Clerk

# 3 YEAR SUMMARY



**CITY OF HAMILTON  
PUBLIC WORKS - RATES PROGRAM  
2022 TO 2024 CAPITAL BUDGET**

	2022		2023		2024		3 Year Total		
	<u>Gross</u>	<u>Net</u>	<u>Gross</u>	<u>Net</u>	<u>Gross</u>	<u>Net</u>	<u>Gross</u>	<u>Net</u>	
<b><u>Water System</u></b>									
Coordinated - Network Extension	4,380	1,520	565	-	-	-	4,945	1,520	
Coordinated - Other	3,320	3,320	3,120	3,120	2,410	2,410	8,850	8,850	
Coordinated - Replacement	7,140	6,740	10,950	10,950	15,160	15,160	33,250	32,850	
Coordinated Replacement (50/50)	4,130	4,130	3,790	3,790	4,930	4,930	12,850	12,850	
Demolition / Disposal	440	440	-	-	-	-	440	440	
Enhancement	110	110	-	-	-	-	110	110	
Expansion / Extension	3,030	500	4,030	475	11,730	1,818	18,790	2,793	
Feasibility Plans / EA's/ Studies	17,995	3,465	3,087	3,087	2,670	2,670	23,752	9,222	
Licenses	210	110	110	110	110	110	430	330	
New	15,182	7,880	22,325	13,145	26,775	22,845	64,282	43,870	
Rehabilitation / Renovation	29,074	14,639	42,780	27,546	60,100	35,895	131,954	78,079	
Replacement	14,605	8,595	14,905	12,918	18,725	15,463	48,235	36,975	
Safety/ Security	1,155	1,155	1,060	1,060	1,130	1,130	3,345	3,345	
Staffing Costs	4,500	4,036	4,500	4,500	4,500	4,500	13,500	13,036	
	<u>105,271</u>	<u>56,640</u>	<u>111,222</u>	<u>80,700</u>	<u>148,240</u>	<u>106,930</u>	<u>364,733</u>	<u>244,269</u>	
<b><u>Wastewater System</u></b>									
Coordinated - Network Extension	9,570	500	-	-	-	-	9,570	500	-
Coordinated - Replacement	4,620	3,030	530	530	2,330	2,330	7,480	5,890	-
Demolition / Disposal	13,250	13,250	-	-	-	-	13,250	13,250	-
Enhancement	710	150	3,350	600	4,250	350	8,310	1,100	-
Expansion / Extension	8,000	-	6,025	200	5,700	-	19,725	200	-
Feasibility Plans / EA's/ Studies	15,736	6,050	6,190	4,401	24,560	5,050	46,486	15,501	-
Licenses	110	110	110	110	110	110	330	330	-
New	20,800	500	11,470	170	5,150	5,150	37,420	5,820	-
Rehabilitation / Renovation	83,780	70,567	46,955	41,560	54,380	53,856	185,115	165,984	-
Relocation	5,650	5,650	-	-	-	-	5,650	5,650	-
Replacement	2,169	1,930	2,875	2,875	5,585	5,585	10,629	10,390	-
Safety/ Security	125	125	-	-	-	-	125	125	-
Staffing Costs	4,500	3,922	4,500	4,500	4,500	4,500	13,500	12,922	-
	<u>169,020</u>	<u>105,784</u>	<u>82,005</u>	<u>54,946</u>	<u>106,565</u>	<u>76,931</u>	<u>357,590</u>	<u>237,662</u>	

**CITY OF HAMILTON  
PUBLIC WORKS - RATES PROGRAM  
2022 TO 2024 CAPITAL BUDGET**

	2022		2023		2024		3 Year Total	
	<u>Gross</u>	<u>Net</u>	<u>Gross</u>	<u>Net</u>	<u>Gross</u>	<u>Net</u>	<u>Gross</u>	<u>Net</u>
<b><u>Storm Water Management</u></b>								
Coordinated - Network Extension	1,500	1,500	1,600	1,600	-	-	3,100	3,100
Coordinated - Replacement	3,060	1,180	2,100	2,100	-	-	5,160	3,280
Enhancement	1,390	1,390	2,910	2,910	1,100	1,100	5,400	5,400
Expansion / Extension	19,160	-	-	-	-	-	19,160	-
Feasibility Plans / EA's/ Studies	1,980	1,980	4,870	4,870	6,380	5,500	13,230	12,350
Licenses	110	110	110	110	110	110	330	330
New	-	-	12,120	1,945	22,875	13,700	34,995	15,645
Rehabilitation / Renovation	5,565	2,725	3,580	3,505	3,580	3,505	12,725	9,735
Replacement	1,680	1,180	900	900	730	730	3,310	2,810
Staffing Costs	1,700	1,700	1,700	1,700	1,700	1,700	5,100	5,100
	<u>36,145</u>	<u>11,765</u>	<u>29,890</u>	<u>19,640</u>	<u>36,475</u>	<u>26,345</u>	<u>102,510</u>	<u>57,750</u>
	<u>310,436</u>	<u>174,189</u>	<u>223,117</u>	<u>155,286</u>	<u>291,280</u>	<u>210,206</u>	<u>824,833</u>	<u>539,681</u>

# WARD SUMMARY





**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 1**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142260082 Large Valve Replacement - Longwood and Glenside	1,000,000	-	-	-	-	2022	2022
5142171303 Marion - Longwood to Dromore	440,000	-	-	-	-	2021	2022
5141567273 Main / Whitney Pumping Station Replacement and Decommissioning	140,000	3,850,000	-	-	-	2015	2023
5142396850 Locke St Trunk Watermain - York - Locke to Cannon @ Caroline (W-19)	-	2,530,000	-	-	-	2023	2023
5142496850 Locke St Trunk Watermain - Main to York (W-19)	-	-	2,200,000	-	-	2024	2024
5142461302 Bold - Queen to Locke	-	-	700,000	-	-	2021	2024
5142661306 Amelia - Queen to West End	-	-	-	-	560,000	2026	2026
5142671305 Dundurn - CPR bridge (s/o Main St) to King	-	-	-	-	430,000	2026	2026
5142760311 George - Queen to Ray	-	-	-	-	420,000	2027	2027
5142771312 Aberdeen - Queen to Studholme	-	-	-	-	3,200,000	2027	2027
5142771314 Westdale North Neighbourhood Phase 1	-	-	-	-	2,500,000	2027	2027
5142871115 Westdale North Neighbourhood Phase 2	-	-	-	-	2,000,000	2028	2028
5142971113 Westdale North Neighbourhood Phase 3	-	-	-	-	2,200,000	2029	2029
5142971303 Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona Neighbourhood)	-	-	-	-	720,000	2029	2029
5142971305 Carling / Macklin St S / Olmstead / Tope (Westdale South)	-	-	-	-	680,000	2029	2029
5142971311 Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	820,000	2029	2029
<b>Sub - Total Water System</b>	<b>1,580,000</b>	<b>6,380,000</b>	<b>2,900,000</b>	<b>-</b>	<b>13,530,000</b>		
<b><u>Wastewater System</u></b>							
5162255900 EA - McMaster Innovation Park (MIP) Storm Sewer Relocation	5,650,000	-	-	-	-	2022	2022
5162271021 Westdale South Neighbourhood (Central)	30,000	-	-	-	-	2022	2022
5162360372 Large Sewer Lining - Blanshard St: Locke St to Poulette St	-	2,300,000	-	-	-	2023	2023
5161767772 Decommissioning Aberdeen Sewage Pumping Station	-	-	-	110,000	1,190,000	2019	2026
5162772214 Westdale North Neighbourhood Phase 1	-	-	-	-	1,590,000	2027	2027
5162871115 Westdale North Neighbourhood Phase 2	-	-	-	-	750,000	2028	2028
5162971113 Westdale North Neighbourhood Phase 3	-	-	-	-	750,000	2029	2029
5162971311 Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	420,000	2029	2029
<b>Sub - Total Wastewater System</b>	<b>5,680,000</b>	<b>2,300,000</b>	<b>-</b>	<b>110,000</b>	<b>4,700,000</b>		

**Storm Water Management**

5182460214 SERG - Parkside & Kipling Stormwater Facility - CASH FLOW	-	-	6,100,000	-	6,510,000	2023	2038
5182761073 Large Sewermain Lining - Stanley Ave	-	-	-	-	2,000,000	2027	2027
5182772214 Westdale North Neighbourhood Phase 1	-	-	-	-	3,190,000	2027	2027
5182871115 Westdale North Neighbourhood Phase 2	-	-	-	-	2,500,000	2028	2028
5182971113 Westdale North Neighbourhood Phase 3	-	-	-	-	1,250,000	2029	2029
5182972311 Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	130,000	2029	2029
<b>Sub - Total Storm Water Management</b>	<b>-</b>	<b>-</b>	<b>6,100,000</b>	<b>-</b>	<b>15,580,000</b>		
<b>Total Ward 1</b>	<b>7,260,000</b>	<b>8,680,000</b>	<b>9,000,000</b>	<b>110,000</b>	<b>33,810,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 2**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142467224 New PD2 Water Pumping Station (CASH FLOWED)	2,650,000	-	1,100,000	5,150,000	5,150,000	2022	2026
5142271022 Burlington - James to Ferguson	1,200,000	-	-	-	-	2022	2022
5142067420 St. Joseph's Tank Pulsation Dampener (HD002STK)	440,000	-	-	-	-	2020	2022
5142271325 CCBF - Corktown Neighbourhood	400,000	-	-	-	-	2022	2022
5142371307 Duke - Hess to west end & Robinson - Queen to west end	-	50,000	300,000	-	-	2023	2024
5142471304 Ferguson/Foster/Walnut/Patrick	-	-	1,710,000	-	-	2022	2024
5142471202 Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	1,550,000	-	-	2024	2024
5142571201 Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	1,400,000	-	2025	2025
5142661301 Robinson - Hess to Park	-	-	-	-	950,000	2021	2026
5142661308 James and Charlton Intersection	-	-	-	-	940,000	2026	2026
5142861303 Hess - Markland to Aberdeen	-	-	-	-	460,000	2028	2028
5142861305 John - Cannon to Barton	-	-	-	-	810,000	2028	2028
5143061303 Caroline - Herkimer to Robinson	-	-	-	-	420,000	2030	2030
5143071303 Hughson - Wilson to Barton	-	-	-	-	550,000	2030	2030
<b>Sub - Total Water System</b>	<b>4,690,000</b>	<b>50,000</b>	<b>4,660,000</b>	<b>6,550,000</b>	<b>9,280,000</b>		
<b><u>Wastewater System</u></b>							
5162271022 Burlington - James to Ferguson	440,000	-	-	-	-	2022	2022
5162271296 Governor's – Main to Ogilvie (Bridge 296)	380,000	-	-	-	-	2022	2022
5162371307 Duke - Hess to west end & Robinson - Queen to west end	-	30,000	250,000	-	-	2023	2024
5162471202 Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	400,000	-	-	2024	2024
5162471304 Ferguson/Foster/Walnut/Patrick	-	-	110,000	-	-	2024	2024
5162571201 Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	400,000	-	2025	2025
<b>Sub - Total Wastewater System</b>	<b>820,000</b>	<b>30,000</b>	<b>760,000</b>	<b>400,000</b>	<b>-</b>		

**Storm Water Management**

5183072293 Hughson - Wilson to Barton

**Sub - Total Storm Water Management**

***Total Ward 2***

-	-	-	-	280,000
<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>280,000</u>
<u>5,510,000</u>	<u>80,000</u>	<u>5,420,000</u>	<u>6,950,000</u>	<u>9,560,000</u>

2030

2030

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 3**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142371322 Barton - Sherman to Ottawa	-	10,000,000	-	-	-	2023	2023
5142571303 Burlington & Industrial - Birch to Gage	-	-	-	2,820,000	-	2025	2025
5142661309 Myler - Sanford to Milton/Milton - Barton to Princess	-	-	-	-	470,000	2026	2026
5142671309 Wilson - Wentworth to Sherman	-	-	-	-	820,000	2026	2026
5142771106 Wentworth - Barton to Burlington	-	-	-	-	2,000,000	2027	2027
5142861302 Edward - Barnesdale to Lottridge	-	-	-	-	360,000	2028	2028
5142871304 Birge - Emerald to Cheever	-	-	-	-	240,000	2028	2028
5142871311 Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	1,640,000	2028	2028
5142961301 Clinton\Case\Ruth\Barnesdale	-	-	-	-	1,810,000	2029	2029
5142971020 Sanford - Cannon to Barton	-	-	-	-	850,000	2029	2029
5142971316 Sanford - Main to Cannon	-	-	-	-	1,410,000	2029	2029
5143060310 Princess/Westinghouse/Milton/Fullerton/Gibson/Earl	-	-	-	-	4,200,000	2030	2030
5143071304 Evans - Wellington to East	-	-	-	-	390,000	2030	2030
5143071308 Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmure	-	-	-	-	950,000	2030	2030
<b>Sub - Total Water System</b>	<b>-</b>	<b>10,000,000</b>	<b>-</b>	<b>2,820,000</b>	<b>15,140,000</b>		
<b><u>Wastewater System</u></b>							
5162871311 Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	440,000	2028	2028
5162971020 Sanford - Cannon to Barton	-	-	-	-	20,000	2029	2029
5162971106 Wentworth - Barton to Burlington	-	-	-	-	250,000	2027	2027
5163071308 Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmure	-	-	-	-	80,000	2030	2030
<b>Sub - Total Wastewater System</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>790,000</b>		
<b><u>Storm Water Management</u></b>							
5182772021 Industrial - Ottawa to Gage / Gage / Depew	-	-	-	-	400,000	2027	2027
5182872295 Main - Prospect to Gage - SERG B-3	-	-	-	-	1,710,000	2028	2028
5182971020 Sanford - Cannon to Barton	-	-	-	-	1,200,000	2029	2029

5183072298 Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmure	-	-	-	-	850,000	2030	2030
<b>Sub - Total Storm Water Management</b>	-	-	-	-	<b>4,160,000</b>		
<b>Total Ward 3</b>	-	<b>10,000,000</b>	-	<b>2,820,000</b>	<b>20,090,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 4**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5141567575 High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	2,470,000	-	-	-	-	2015	2022
5142261240 Woodward Treatment Plant Filter Building - Flume Watermain Lining	2,000,000	-	-	-	-	2022	2022
5142166110 Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)	1,378,000	2,705,000	19,175,000	54,838,000	66,706,000	2021	2028
5142271312 Strathearne - Main to Britannia	900,000	-	-	-	-	2022	2022
5142271214 Fairfield - Barton to Britannia	500,000	-	-	-	-	2022	2022
5142471315 Strathearne - Brampton to gate at north end	-	-	820,000	-	-	2024	2024
5141269250 HVAC system Upgrades at New Environmental Laboratory and Administration Building	-	-	110,000	880,000	-	2011	2025
5142571306 Barton - Ottawa to Kenilworth	-	-	-	4,700,000	-	2025	2025
5142671314 Brampton - Parkdale to Woodward & Brighton	-	-	-	-	810,000	2026	2026
5142761302 Edgemont - Main to King	-	-	-	-	660,000	2021	2028
5143166110 Water Treatment Plant - Process Upgrades Phase 3 (CASH FLOWED)	-	-	-	-	1,100,000	2031	2034
<b>Sub - Total Water System</b>	<b>7,248,000</b>	<b>2,705,000</b>	<b>20,105,000</b>	<b>60,418,000</b>	<b>69,276,000</b>		
<b><u>Wastewater System</u></b>							
5162068851 Pier 25 Dredging - Windermere Basin	13,250,000	-	-	-	-	2018	2022
5162271214 Fairfield - Barton to Britannia	250,000	-	-	-	-	2022	2022
5162271012 Strathearne - Main to Britannia - Sewer Laterals	170,000	-	-	-	-	2022	2022
5161767420 Parkdale Avenue HC001 Wastewater Pumping Station Upgrades	-	2,860,000	-	-	-	2016	2023
<b>Sub - Total Wastewater System</b>	<b>13,670,000</b>	<b>2,860,000</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b><u>Storm Water Management</u></b>							
5182271312 Streathearne - Main to Britannia	1,000,000	-	-	-	-	2022	2022
<b>Sub - Total Storm Water Management</b>	<b>1,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b>Total Ward 4</b>	<b>21,918,000</b>	<b>5,565,000</b>	<b>20,105,000</b>	<b>60,418,000</b>	<b>69,276,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 5**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5141795850 Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	550,000	13,930,000	15,650,000	15,650,000	-	2017	2025
5142271306 Kelvin - Old Orchard to south end	100,000	-	-	-	-	2022	2022
5143071129 Nash – Barton to 350 metres north of Bancroft	-	-	-	-	1,100,000	2030	2030
<b>Sub - Total Water System</b>	<b>650,000</b>	<b>13,930,000</b>	<b>15,650,000</b>	<b>15,650,000</b>	<b>1,100,000</b>		
<b><u>Wastewater System</u></b>							
5162267375 Beach Boulevard (HC051) Wastewater Pump Station Upgrades	440,000	1,150,000	-	-	-	2022	2023
5162271306 Kelvin - Old Orchard to south end	60,000	-	-	-	-	2022	2022
5161467756 Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	-	2,150,000	-	-	-	2014	2023
<b>Sub - Total Wastewater System</b>	<b>500,000</b>	<b>3,300,000</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b><u>Storm Water Management</u></b>							
5182067875 Beach Strip Stormwater Pumping Stations (CASH FLOWED)	-	1,795,000	7,100,000	7,080,000	-	2020	2025
5182323875 Beach Strip Stormwater Collection System Improvements	-	150,000	500,000	-	2,350,000	2022	2032
<b>Sub - Total Storm Water Management</b>	<b>-</b>	<b>1,945,000</b>	<b>7,600,000</b>	<b>7,080,000</b>	<b>2,350,000</b>		
<b>Total Ward 5</b>	<b>1,150,000</b>	<b>19,175,000</b>	<b>23,250,000</b>	<b>22,730,000</b>	<b>3,450,000</b>		



**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 6**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142271308 Concession / Mountain Brow - Upper Gage to Oakcrest	2,200,000	-	-	-	-	2022	2022
5142471106 Rymal - Upper Ottawa to Dartnall	-	-	1,200,000	-	-	2024	2024
5142571106 Rymal - Upper Gage to Upper Ottawa	-	-	-	950,000	-	2025	2025
5142671103 Rymal - Upper Sherman to Upper Gage	-	-	-	-	1,500,000	2026	2026
<b>Sub - Total Water System</b>	<b>2,200,000</b>	<b>-</b>	<b>1,200,000</b>	<b>950,000</b>	<b>1,500,000</b>		
<b><u>Wastewater System</u></b>							
5162271308 Concession / Mountain Brow - Upper Gage to Oakcrest	150,000	-	-	-	-	2022	2022
<b>Sub - Total Wastewater System</b>	<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b>Total Ward 6</b>	<b>2,350,000</b>	<b>-</b>	<b>1,200,000</b>	<b>950,000</b>	<b>1,500,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 7**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142271318 Eastmount Neighbourhood - Water	210,000	-	-	-	-	2022	2022
5142661307 Dallas - Upper Gage to West End	-	-	-	-	630,000	2026	2026
<b>Sub - Total Water System</b>	<b>210,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>630,000</b>		
<b>Total Ward 7</b>	<b>210,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>630,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 8**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5141567520 Stone Church/Garth Water (HDR05) Reservoir	-	3,125,000	2,775,000	-	-	2015	2024
5142571305 Upper James - Mohawk to Fennell	-	-	-	3,070,000	-	2025	2025
5142671323 Fennell - Upper James to Upper Wellington	-	-	-	-	670,000	2026	2026
<b>Sub - Total Water System</b>	<b>-</b>	<b>3,125,000</b>	<b>2,775,000</b>	<b>3,070,000</b>	<b>670,000</b>		
<b><u>Storm Water Management</u></b>							
5182480490 SWMP H28 305 Stone Church Road West	-	-	5,175,000	-	-	2024	2024
<b>Sub - Total Storm Water Management</b>	<b>-</b>	<b>-</b>	<b>5,175,000</b>	<b>-</b>	<b>-</b>		
<b>Total Ward 8</b>	<b>-</b>	<b>3,125,000</b>	<b>7,950,000</b>	<b>3,070,000</b>	<b>670,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 9**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142280280 First Road West Watermain - Bedrock to Glover Mountain	830,000	-	-	-	-	2022	2022
5142260280 Upper Centennial Watermain Extension	500,000	-	-	-	-	2022	2022
5141867651 HD007 Highland Rd Reservoir Upgrades	170,000	1,000,000	-	-	-	2018	2023
5142371327 Upper Centennial - Rymal to Mud	-	100,000	6,000,000	-	-	2023	2024
5142495251 Highland Reservoir HDR07 (W-11) Expansion (CASH FLOWED)	-	-	1,980,000	5,220,000	5,220,000	2021	2026
<b>Sub - Total Water System</b>	<b>1,500,000</b>	<b>1,100,000</b>	<b>7,980,000</b>	<b>5,220,000</b>	<b>5,220,000</b>		
<b><u>Wastewater System</u></b>							
5162280280 Dewitt Road Sanitary Sewer - Barton to SSR	1,000,000	-	-	-	-	2022	2022
5162280285 Drop Structure Installation - Upper Centennial Trunk Sewer Manhole #10	500,000	-	-	-	-	2022	2022
<b>Sub - Total Wastewater System</b>	<b>1,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b><u>Storm Water Management</u></b>							
5182280291 SWMP SM21 Nash 2/3 Development	4,745,000	-	-	-	-	2022	2022
5182280292 SWMP SM17 198 Highland Road West	4,085,000	-	-	-	-	2022	2022
5182271226 Mud St (Phase 02) - Isaac Brock Dr to Upper Centennial Pkwy	180,000	-	-	-	-	2022	2022
5182372021 Highland Rd W - First Rd W to Upper Centennial	-	1,600,000	-	-	-	2023	2023
<b>Sub - Total Storm Water Management</b>	<b>9,010,000</b>	<b>1,600,000</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b>Total Ward 9</b>	<b>12,010,000</b>	<b>2,700,000</b>	<b>7,980,000</b>	<b>5,220,000</b>	<b>5,220,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 10**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142167840 PD9 & PD10 East Stoney Creek Booster Pumping Station	550,000	3,150,000	-	-	-	2021	2023
5142471314 Pinelands / Teal / Garden / Community / Greensfield	-	-	1,830,000	-	-	2024	2024
5142971117 Green - Carla to Barton	-	-	-	-	1,300,000	2029	2029
5143080081 South Service Rd - Millen to Dewitt	-	-	-	-	2,280,000	2023	2044
5143080380 South Service Rd - Fruitland to Jones	-	-	-	-	1,280,000	2023	2030
5143080388 Lewis - Barton to Hwy 8	-	-	-	-	500,000	2023	2030
5143180381 Dewitt CNR Tracks to Barton	-	-	-	-	610,000	2024	2031
<b>Sub - Total Water System</b>	<b>550,000</b>	<b>3,150,000</b>	<b>1,830,000</b>	<b>-</b>	<b>5,970,000</b>		
<b><u>Wastewater System</u></b>							
5162262250 Eastern Sewer Interceptor (ESI) - South Service - Fruitland to Green	8,000,000	-	-	-	-	2022	2022
5162280282 Fifty Road Trunk Sanitary Sewer	1,300,000	-	-	-	-	2022	2022
5162171025 Dewitt - Highway 8 to Barton	1,040,000	-	-	-	-	2021	2022
5162380380 Millen Road Sanitary Sewer QEW crossing	-	1,125,000	-	-	-	2023	2023
5162971117 Green - Carla to Barton	-	-	-	-	100,000	2029	2029
<b>Sub - Total Wastewater System</b>	<b>10,340,000</b>	<b>1,125,000</b>	<b>-</b>	<b>-</b>	<b>100,000</b>		
<b><u>Storm Water Management</u></b>							
5182280290 SWMP SL12 Block 3 (1090 Barton Street)	10,330,000	-	-	-	-	2022	2022
<b>Sub - Total Storm Water Management</b>	<b>10,330,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b>Total Ward 10</b>	<b>21,220,000</b>	<b>4,275,000</b>	<b>1,830,000</b>	<b>-</b>	<b>6,070,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 11**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5141495551 PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	5,500,000	5,500,000	-	-	-	2014	2023
5141996951 Binbrook Feedermain via Fletcher (W-30)	2,530,000	-	-	-	-	2019	2022
5142280281 Dickenson Road West Watermain - Garth Street Extension to 870m easterly	510,000	-	-	-	-	2022	2022
5142380320 RHBP - Twenty Rd Extension - Glover to Trinity Church	-	565,000	-	-	-	2023	2023
5141995951 PS HD019 (Binbrook) Capacity Upgrade (W-20)	-	-	280,000	-	2,150,000	2019	2026
5142580580 RHBP - Nebo - 900m s/o Twenty to Dickenson	-	-	-	400,000	-	2021	2039
5142880884 RHBP - Dickenson - Nebo to 800m e/o Nebo	-	-	-	-	900,000	2028	2028
5143180180 Glover - Barton to South Service Rd Extension	-	-	-	-	790,000	2024	2031
<b>Sub - Total Water System</b>	<b>8,540,000</b>	<b>6,065,000</b>	<b>280,000</b>	<b>400,000</b>	<b>3,840,000</b>		
<b><u>Wastewater System</u></b>							
5161696452 Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	20,300,000	11,300,000	-	-	-	2016	2023
5162280281 Dickenson Road West Sanitary Sewer - Garth Street Extension to Upper James Street	2,670,000	-	-	-	-	2022	2022
5162360310 Regional Road 56 - Fall Fair Way to 500m North of Guyatt Rd - Sewer Main Rehab	-	2,500,000	-	-	-	2023	2023
<b>Sub - Total Wastewater System</b>	<b>22,970,000</b>	<b>13,800,000</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b>Total Ward 11</b>	<b>31,510,000</b>	<b>19,865,000</b>	<b>280,000</b>	<b>400,000</b>	<b>3,840,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 12**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142096520 Garner Road Trunk Watermain - Southcote to Wilson (W-09)	13,550,000	-	-	-	-	2020	2023
5142171328 Southcote - Garner to Highway 403 Bridge	3,040,000	-	-	-	-	2021	2022
5142167420 HDR18 Glancaster Reservoir Ugrades	440,000	1,430,000	1,100,000	-	-	2021	2024
5142067450 Lee Smith Reservoir (HDR00) Ugrades	170,000	-	-	-	-	2020	2022
5141395354 PD18 (Ancaster) Water Servicing Strategy (W-14) (CASH FLOWED)	-	6,080,000	6,080,000	-	-	2013	2024
5141667421 Glancaster Rd & Hwy 53 Pumping Station (HD018) Ugrades (CASH FLOWED)	-	-	-	-	5,500,000	2016	2029
5142771109 Southcote - Hwy 403 bridge to Oldoakes /Dorval	-	-	-	-	2,100,000	2027	2027
5143180182 Shaver - Kastura to Westview	-	-	-	-	225,000	2031	2032
<b>Sub - Total Water System</b>	<b>17,200,000</b>	<b>7,510,000</b>	<b>7,180,000</b>	<b>-</b>	<b>7,825,000</b>		
<b><u>Wastewater System</u></b>							
5162180187 Garner Road Trunk Sanitary Sewer - Hwy 6 w/o Raymond - CASH FLOW	4,000,000	-	-	-	-	2021	2022
5162280283 370 Garner Road Pumping Station (AEGD)	3,500,000	-	-	-	-	2022	2022
5162280284 Shaver Road Sanitary Sewer - Osprey to hydro corridor	600,000	-	-	-	-	2022	2022
5162067425 Hillside SPS (DC006) Ugrades	280,000	550,000	-	-	-	2020	2023
<b>Sub - Total Wastewater System</b>	<b>8,380,000</b>	<b>550,000</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b><u>Storm Water Management</u></b>							
5182380390 SWMP A14 Springbrook Corners	-	1,290,000	-	-	-	2023	2023
<b>Sub - Total Storm Water Management</b>	<b>-</b>	<b>1,290,000</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b>Total Ward 12</b>	<b>25,580,000</b>	<b>9,350,000</b>	<b>7,180,000</b>	<b>-</b>	<b>7,825,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 13**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142671108 Rymal - Glancaster to Upper Paradise	-	-	-	-	340,000	2026	2026
5142871118 Charlton - Walnut to Sherman Access	-	-	-	-	2,700,000	2028	2028
5142971114 Charlton - James to Walnut	-	-	-	-	4,000,000	2029	2029
<b>Sub - Total Water System</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,040,000</b>		
<b><u>Wastewater System</u></b>							
5162272205 Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,250,000	-	-	-	-	2022	2022
5162167420 DC007 McMaster Sewage Pumping Station Upgrades	330,000	2,090,000	-	-	-	2021	2023
5161266213 Dundas WWTP Improvements (CASH FLOWED)	-	1,650,000	-	9,150,000	14,700,000	2011	2027
<b>Sub - Total Wastewater System</b>	<b>1,580,000</b>	<b>3,740,000</b>	<b>-</b>	<b>9,150,000</b>	<b>14,700,000</b>		
<b><u>Storm Water Management</u></b>							
5182172205 Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,880,000	-	-	-	-	2021	2022
5182260220 Culvert FLA-3008 - Old Brock Rd 100m w/o Brock	150,000	350,000	-	-	-	2022	2023
5181823155 South St E and East St S in Dundas Drainage Improvement - SERG	110,000	-	1,100,000	-	-	2018	2024
5182372304 Hatt & Bond - King to Market	-	2,100,000	-	-	-	2023	2023
<b>Sub - Total Storm Water Management</b>	<b>2,140,000</b>	<b>2,450,000</b>	<b>1,100,000</b>	<b>-</b>	<b>-</b>		
<b>Total Ward 13</b>	<b>3,720,000</b>	<b>6,190,000</b>	<b>1,100,000</b>	<b>9,150,000</b>	<b>21,740,000</b>		



**CITY OF HAMILTON  
 2022 RECOMMENDED PROJECTS &  
 2023-2031 FORECAST  
 FOR WARD 14**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Wastewater System</u></b>							
5162271109 Scenic - Mohawk to Chateau	70,000	-	-	-	-	2022	2022
5162461420 West 31st 400mm Forcemain Replacement & Rehabilitation	-	-	1,600,000	-	-	2024	2024
5162471308 Scenic - Chateau Crt to Upper Paradise	-	-	1,070,000	-	-	2024	2024
<b>Sub - Total Wastewater System</b>	<b>70,000</b>	<b>-</b>	<b>2,670,000</b>	<b>-</b>	<b>-</b>		
<b>Total Ward 14</b>	<b>70,000</b>	<b>-</b>	<b>2,670,000</b>	<b>-</b>	<b>-</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**FOR WARD 15**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Wastewater System</u></b>							
5162267376 Rockcliffe (DC015) Wastewater Pumping Station Upgrades	990,000	3,350,000	-	-	-	2022	2023
5165522888 Mill St Bridge - Sanitary Sewer Erosion Protection	350,000	-	-	-	-	2022	2022
5162418420 Grindstone Creek Utility Bridge	-	-	3,500,000	-	-	2024	2028
<b>Sub - Total Wastewater System</b>	<b>1,340,000</b>	<b>3,350,000</b>	<b>3,500,000</b>	<b>-</b>	<b>-</b>		
<b><u>Storm Water Management</u></b>							
5182274950 Watercourse and Drainage Channel Maintenance	1,445,000	460,000	460,000	860,000	3,300,000	2022	2046
5182017040 Highway 97 - Culvert Improvement Project	300,000	-	-	-	-	2020	2022
5182380864 SWMP W6 Waterdown Bay (Saleem Property )	-	1,565,000	-	-	-	2023	2023
5183180086 Parkside Dr Urbanization - Phase 2 - Storm Sewer	-	-	-	-	1,100,000	2022	2031
<b>Sub - Total Storm Water Management</b>	<b>1,745,000</b>	<b>2,025,000</b>	<b>460,000</b>	<b>860,000</b>	<b>4,400,000</b>		
<b>Total Ward 15</b>	<b>3,085,000</b>	<b>5,375,000</b>	<b>3,960,000</b>	<b>860,000</b>	<b>4,400,000</b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**MULTI-WARD**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142260081 Large Valve Replacement - Nash	2,000,000	-	-	-	-	2022	2022
5142266871 Hamilton Water Capital Security Plan	1,030,000	1,060,000	1,130,000	790,000	530,000	2022	2031
5142271305 Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,000,000	-	-	-	-	2022	2022
5141895852 Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)	900,000	-	6,150,000	-	-	2018	2024
5142255280 Airport Employment Growth District (AEGD) Water, Wastewater and Stormwater Master Plan Update	700,000	-	-	-	-	2022	2022
5142271296 Governor's – Main to Ogilvie (Bridge 296)	400,000	-	-	-	-	2022	2022
5141967375 HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades	330,000	-	-	-	-	2019	2022
5142255264 City-Wide Water Master Plan	280,000	-	-	-	550,000	2022	2028
5141595553 PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	220,000	2,650,000	4,350,000	-	-	2015	2024
5142167421 HDR11 Woodley Lane Reservoir Upgrades	170,000	500,000	-	-	-	2021	2023
5141767650 New Greensville Communal Well	150,000	150,000	3,500,000	3,500,000	-	2017	2025
5142266351 Woodward SCADA OT (Operating Technology) Security Program	125,000	-	-	-	-	2022	2022
5142166608 Lynden Water System - Phase 2 Treatment	110,000	-	-	-	-	2021	2022
5142257800 Water Facility Asset Management Implementation Plan	100,000	280,000	110,000	-	-	2022	2024
5141695883 PS HD016 (York and Valley) Capacity Upgrade, Standby Power & Building Expansion (W-26) (CASH FLOWED)	-	3,950,000	4,150,000	550,000	-	2016	2025
5142441226 Centralized Water and Wastewater Operations Centre (CASH FLOWED)	-	2,625,000	5,125,000	-	-	2023	2024
5141796752 PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	-	1,100,000	7,270,000	-	-	2017	2024
5142371304 Hatt & Bond - King to Market	-	800,000	-	-	-	2021	2023
5142471308 Scenic - Chateau Crt to Upper Paradise	-	-	1,750,000	-	-	2024	2024
5142472304 Bridge 451 - Hwy 5 E, 120m e/o Mill St S	-	-	140,000	-	-	2024	2031
5142567751 Water Outstation Upgrades - Asset Management Program	-	-	-	7,500,000	45,000,000	2023	2046
5142596250 HD07A Feedermain (W-22)	-	-	-	1,160,000	7,700,000	2021	2026
5142160073 Structural Watermain Lining - Charlton Ave 750mm	-	-	-	-	2,680,000	2021	2029

5142671307 Hatt - Market to east end & York / Kerr	-	-	-	-	1,060,000	2026	2026
5142671324 Osler - South St to West Park	-	-	-	-	900,000	2026	2028
5142771309 Gray - King to Hwy 8	-	-	-	-	2,000,000	2027	2027
5142771315 Barton St BIA - Wentworth to Sherman	-	-	-	-	3,440,000	2027	2027
5142860072 WM Structural Lining - Dundas Valley Watermain	-	-	-	-	1,550,000	2028	2028
5142871307 Barton St BIA - Ferguson to Wentworth	-	-	-	-	4,440,000	2028	2028
5142871308 Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	2,150,000	2028	2028
5142871312 Cairns / East St N / Spencer / (Hunter Neighbourhood)	-	-	-	-	630,000	2028	2028
5142971310 Upper Wellington - Bryna to Mohawk	-	-	-	-	1,050,000	2029	2029
5143166510 GAC Replacement	-	-	-	-	600,000	2026	2032
<b>Sub - Total Water System</b>	<b>7,515,000</b>	<b>13,115,000</b>	<b>33,675,000</b>	<b>13,500,000</b>	<b>74,280,000</b>		

**Wastewater System**

5162266911 Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)	3,450,000	-	5,900,000	5,900,000	-	2022	2025
5162255800 Inflow & Infiltration Study for New Subdivisions	550,000	-	-	-	-	2022	2022
5162262305 Iona Avenue Sewer Improvements	330,000	-	-	-	-	2022	2022
5162271303 Marion - Longwood to Dromore	180,000	-	-	-	-	2022	2022
5162266351 Woodward SCADA OT (Operating Technology) Security Program	125,000	-	-	-	-	2022	2022
5162257800 Wastewater Facility Asset Management Implementation Plan	100,000	280,000	110,000	-	-	2022	2024
5162441226 Centralized Water and Wastewater Operations Centre (CASH FLOWED)	-	2,625,000	5,125,000	-	-	2023	2024
5162367065 Replacement of the Eastport Sanitary Pumping Station	-	1,100,000	280,000	550,000	550,000	2023	2026
5161695747 Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	-	-	18,000,000	-	-	2016	2024
5162560592 Strathearne - Barton to Brampton	-	-	-	7,280,000	-	2024	2025
5162567751 Wastewater Outstation Upgrades - Asset Management Program	-	-	-	4,500,000	27,000,000	2024	2046
5162560572 Large Sewer Lining: Upper James - Inverness to James St S	-	-	-	3,000,000	-	2025	2025
5161968920 Fennell/Greenhill Drop Shaft	-	-	-	-	14,850,000	2019	2030
5162871118 Charlton - Walnut to Sherman Access	-	-	-	-	120,000	2028	2028
5162871208 Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	760,000	2028	2028
5162971114 Charlton - James to Walnut	-	-	-	-	75,000	2029	2029
<b>Sub - Total Wastewater System</b>	<b>4,735,000</b>	<b>4,005,000</b>	<b>29,415,000</b>	<b>21,230,000</b>	<b>43,355,000</b>		

**Storm Water Management**

5182160722 Municipal Drain Program	100,000	100,000	100,000	100,000	600,000	2021	2046
5182271328 Southcote - Garner to Highway 403 Bridge	1,500,000	-	-	-	-	2022	2022
5182255688 EA for Rosedale Stormwater Management Facility - Outlet to Red Hill Creek	450,000	-	-	-	-	2022	2022

5181872295 SERG - Winona Area Drainage Improvements	440,000	-	-	-	1,270,000	2018	2028
5182380391 SWMP SL3 Block 2 (844 Barton Street)	-	3,320,000	-	-	-	2023	2023
5181562590 SWMP Retrofits	-	660,000	-	-	-	2015	2023
5182872208 Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	700,000	2028	2028
5182971114 Charlton - James to Walnut	-	-	-	-	650,000	2029	2029
<b>Sub - Total Storm Water Management</b>	<b><u>2,490,000</u></b>	<b><u>4,080,000</u></b>	<b><u>100,000</u></b>	<b><u>100,000</u></b>	<b><u>3,220,000</u></b>		
<b><i>Total Multi-Ward Projects</i></b>	<b><u>14,740,000</u></b>	<b><u>21,200,000</u></b>	<b><u>63,190,000</u></b>	<b><u>34,830,000</u></b>	<b><u>120,855,000</u></b>		

**CITY OF HAMILTON**  
**2022 RECOMMENDED PROJECTS &**  
**2023-2031 FORECAST**  
**CITY-WIDE**

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026-2031</u>	<u>Start</u>	<u>End</u>
<b><u>Water System</u></b>							
5142111101 Road Cut Restoration Program	7,965,000	5,400,000	5,400,000	5,400,000	32,400,000	2021	2046
5142160072 Watermain Structural Lining	5,300,000	6,200,000	6,200,000	6,200,000	37,200,000	2021	2046
5142101099 Engineering Services Staffing Costs - Water	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	2021	2046
5142161502 Water Meter - Installation/Replacement/Repair - General Maintenance	4,270,000	4,360,000	4,450,000	3,550,000	22,870,000	2021	2046
5142170000 Rates Share of Road Reconstruction - NOT TO BE SET UP IN PEOPLESOFT	4,130,000	3,790,000	4,930,000	4,690,000	56,400,000	2022	2046
5142160080 Valve Replacement Program	3,780,000	1,720,000	1,450,000	1,780,000	8,550,000	2021	2046
5142160750 Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	2,850,000	2,850,000	2,350,000	2,350,000	14,100,000	2021	2046
5142162078 Substandard Water Service Replacement Program	2,350,000	2,350,000	2,000,000	2,000,000	12,000,000	2021	2046
5142299999 Rates Projects Included in Tax Budget - NOT TO BE SET UP IN PEOPLESOFT	2,320,000	2,120,000	1,410,000	360,000	4,410,000	2022	2046
5141761777 Beach Trunkmain Rehab	1,500,000	-	-	-	-	2017	2022
5141966420 Woodward WTP Chlorine Chemical Building	1,380,000	-	-	-	-	2019	2022
5142151110 Fleet Additions	1,162,000	460,000	120,000	130,000	1,050,000	2021	2046
5142267510 Water System Studies & Continual Improvement Initiatives	1,100,000	-	-	-	-	2022	2022
5142166713 Water Maintenance Capital Program	1,000,000	2,000,000	2,000,000	2,000,000	12,000,000	2022	2046
5142160501 Watermain Rehabilitation/Replacement Coordinated with Development	1,000,000	1,000,000	1,000,000	1,000,000	6,000,000	2021	2046
5142266320 Woodward Water Treatment Plant - Low Lift Pumping Station Intake Repairs	830,000	-	-	-	-	2022	2022
5142160577 Metallic Watermain Condition Assessment Program	815,000	630,000	630,000	630,000	3,780,000	2021	2046
5142157626 Critical Watermain Inspection Program	731,000	600,000	600,000	600,000	3,600,000	2021	2046
5142266220 Water Treatment Plant - Clearwells Concrete Restoration Upgrades	600,000	700,000	2,400,000	2,400,000	-	2022	2025
5142155010 Water Systems Planning Program	600,000	600,000	600,000	600,000	3,600,000	2022	2040
5141760754 Kenilworth Transmission Watermain Renewal	600,000	-	-	-	-	2017	2022
5142066310 WTP Pre-Treatment Isolation Valves	550,000	-	-	-	-	2020	2022
5142267585 Diesel Fuel Storage Compliance Upgrades	500,000	600,000	-	-	-	2022	2023
5142155022 Engineering Consultant Watermain Projects	400,000	400,000	400,000	400,000	2,400,000	2021	2046
5142266712 Water Maintenance - Rebuild, Replacement and New Capital	400,000	200,000	200,000	200,000	1,200,000	2022	2046
5142169075 City Environmental Lab Improvements Program	340,000	190,000	90,000	50,000	300,000	2021	2046

5141855777	Water infrastructure Analysis - Growth and Economic Opportunities	330,000	-	-	-	-	2018	2022
5142149555	QA-QC Service Contract Program	290,000	150,000	150,000	150,000	900,000	2021	2046
5142257000	Vertical Asset Management Program	280,000	-	-	-	-	2021	2022
5142160711	PW Capital Water Consumption Program	250,000	250,000	250,000	250,000	1,500,000	2021	2046
5142261741	Resetting or Adjusting of Water Utility Structures	250,000	250,000	250,000	250,000	1,500,000	2022	2046
5142162073	Field Data Systems Program	210,000	110,000	110,000	110,000	660,000	2021	2046
5142251112	Inventory Bar Coding System, Equipment & Consulting	200,000	-	-	-	-	2022	2022
5142157545	Water - Computer Model	150,000	280,000	280,000	280,000	1,680,000	2021	2046
5141966151	SCADA Maintenance Program	150,000	275,000	275,000	900,000	2,275,000	2019	2046
5142155247	Alterations to the Drinking Water System	150,000	150,000	150,000	150,000	900,000	2021	2046
5142255851	Water Efficiency Plan/Program	115,000	117,000	120,000	122,000	803,000	2022	2041
5142155556	Mapping Update Program	40,000	40,000	40,000	40,000	240,000	2021	2046
5142167752	Water Outstation Inspections - Asset Management	-	800,000	800,000	800,000	6,300,000	2021	2046
5142155713	Pressure Districts and Drinking Water System Optimization	-	420,000	170,000	170,000	1,020,000	2022	2031
5142196011	Intensification Infrastructure Upgrades Program - Water	-	400,000	-	400,000	1,200,000	2023	2045
5142171074	Contingency for Unscheduled Works Program	-	180,000	-	180,000	540,000	2021	2046
5142066350	WTP Chlorine Chemical Building	-	-	6,430,000	6,430,000	-	2020	2025
5142495552	P.S. HD07A - New District 7 (Elfrida area) Pumping Station (W-21)	-	-	250,000	-	20,050,000	2024	2027
5142161300	Stand-Alone Watermain Replacement	-	-	-	-	5,000,000	2028	2046
5142171301	Watermain Replacement Coordinated with Roads	-	-	-	-	3,400,000	2027	2046
5143066151	2030 SCADA Master Plan	-	-	-	-	5,125,000	2029	2034
<b>Sub - Total Water System</b>		<b>53,388,000</b>	<b>44,092,000</b>	<b>50,005,000</b>	<b>49,072,000</b>	<b>301,953,000</b>		

### Wastewater System

5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	37,895,253	-	-	-	-	2008	2022
5162168777	Chedoke Creek Water Quality Improvements (CASH FLOWED)	9,050,000	1,250,000	1,100,000	-	-	2021	2024
5161966511	Woodward WWTP - Digester 3 & 5 (CASH FLOWED)	4,710,000	-	-	-	-	2019	2022
5161966102	Woodward WWTP - Expansion (CASH FLOWED)	4,500,000	4,500,000	5,700,000	5,700,000	289,274,000	2019	2028
5162101099	Engineering Services Staffing Costs - Wastewater	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	2021	2046
5162160390	Wastewater System Lining Program	4,050,000	4,050,000	4,050,000	4,050,000	24,300,000	2021	2046
5162160522	Sewer Lateral Management Program (WWC)	4,000,000	3,500,000	3,500,000	3,500,000	21,000,000	2021	2046
5162161444	Sewer Lateral Replace/Rehab Program	3,620,000	3,100,000	3,100,000	3,100,000	20,100,000	2021	2046
5160966910	Woodward WWTP - Biosolids Management Facility	2,770,000	2,770,000	2,770,000	2,770,000	16,620,000	2009	2046
5162111101	Road Cut Restoration Program	2,315,000	1,800,000	1,800,000	1,800,000	10,800,000	2021	2046
5162160575	Mainline Sewer Condition Assessment Program	2,030,000	1,140,000	1,140,000	1,140,000	6,840,000	2021	2046
5162160302	Emergency Repairs - Cross Connections Program	1,470,000	400,000	400,000	400,000	350,000	2021	2026
5162160574	Capital Programming Sewer Inspection & Assessment	1,150,000	700,000	700,000	700,000	4,200,000	2021	2046
5162267585	Diesel Fuel Storage Compliance Upgrades	1,100,000	1,400,000	-	-	-	2022	2023
5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	1,100,000	930,000	12,955,000	12,955,000	-	2022	2026

5162167752	Wastewater Outstation Inspections - Asset Management Program	1,020,000	920,000	920,000	920,000	5,520,000	2021	2046
5162167501	Odour Control Program & Media Replacement	1,000,000	-	-	-	-	2021	2022
5162160576	Sewer Lateral Condition Assessment Program	790,000	250,000	250,000	250,000	2,370,000	2021	2046
5162161740	Unscheduled Manhole and Sewermain Replacement Program	750,000	650,000	500,000	500,000	3,000,000	2021	2046
5162155878	Forcemain Condition Assessment Program	626,000	270,000	270,000	270,000	1,620,000	2021	2046
5162160820	Open Cut Repairs for CIPP Program	620,000	500,000	500,000	500,000	3,000,000	2021	2046
5162155010	Wastewater Systems Planning Program	600,000	600,000	600,000	600,000	3,600,000	2022	2046
5162171015	Sewer Lateral Replacement for Co-ordinated Projects	600,000	500,000	500,000	500,000	3,000,000	2021	2046
5162266712	Wastewater Maintenance - Rebuild, Replacement and New Capital	600,000	300,000	300,000	300,000	1,800,000	2021	2046
5162255242	Combined Sewer Outfall Monitoring Study	600,000	200,000	-	-	-	2022	2023
5161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities	550,000	-	-	-	-	2018	2022
5162155022	Engineering Consultant Sewermain Projects	500,000	500,000	500,000	500,000	3,000,000	2021	2046
5162055800	Sewer Outfall Monitoring Study	500,000	-	1,000,000	-	-	2020	2024
5162166810	Woodward WWTP - Maintenance Building (CASH FLOWED)	500,000	-	-	-	-	2018	2022
5162095800	Flooding & Drainage Master Plan Capital Improvements	450,000	550,000	440,000	170,000	-	2020	2025
5162169075	City Environmental Lab Improvements Program	340,000	190,000	90,000	50,000	300,000	2021	2046
5162268757	Lower Chedoke Combined EA Study	280,000	1,650,000	1,100,000	2,100,000	2,100,000	2022	2026
5162268767	Chedoke Watershed Stormwater Retrofit EA Study	280,000	1,100,000	3,150,000	3,150,000	4,300,000	2022	2027
5161555264	City-Wide Wastewater Master Plan	280,000	-	-	-	550,000	2015	2028
5162160533	Trenchless Manhole Rehabilitation	250,000	250,000	250,000	250,000	1,500,000	2021	2046
5162160711	PW Capital Water Consumption Program	250,000	250,000	250,000	250,000	1,500,000	2021	2046
5162261741	Resetting or Adjusting of Wastewater Utility Structures	250,000	250,000	250,000	250,000	1,500,000	2022	2046
5162157545	Wastewater Computer Model Update & Maintenance	220,000	440,000	440,000	280,000	1,020,000	2021	2046
5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations	219,000	100,000	100,000	100,000	600,000	2021	2046
5162171074	Contingency for Unscheduled Works Program	180,000	-	180,000	-	540,000	2022	2046
5162562543	CSO Characterization Program	170,000	170,000	170,000	600,000	1,020,000	2022	2031
5162241350	Pilot solar power installation at a Class B Hamilton Water facility	150,000	600,000	-	-	-	2022	2025
5161966151	SCADA Maintenance Program	150,000	275,000	275,000	900,000	2,275,000	2019	2046
5162149555	QA-QC Service Contract Program	150,000	150,000	150,000	150,000	900,000	2021	2046
5162162073	Field Data Systems Program	110,000	110,000	110,000	110,000	660,000	2021	2046
5162155556	Mapping Update Program	40,000	40,000	40,000	40,000	240,000	2021	2046
5162466301	Woodward WWTP North Plant Rehabilitation (CASH FLOWED)	-	2,200,000	2,200,000	1,200,000	70,600,000	2023	2028
5162166713	Wastewater Maintenance Capital Program	-	2,000,000	2,000,000	2,000,000	12,000,000	2021	2046
5162155880	Inflow & Infiltration Studies and Flow Monitoring Program	-	820,000	820,000	280,000	1,680,000	2021	2046
5162266011	Woodward WWTP - Secondary Digester	-	500,000	6,000,000	-	-	2022	2025



5162196011	Intensification Infrastructure Upgrades Program - Wastewater	-	400,000	-	400,000	1,200,000	2023	2039
5161667421	New Haulage Receiving Station	-	170,000	5,150,000	5,150,000	-	2016	2025
5162696475	Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	22,500,000	2027	2029
5163066151	2030 SCADA Master Plan	-	-	-	-	5,125,000	2029	2034
<b>Sub - Total Wastewater System</b>		<b>97,285,253</b>	<b>46,945,000</b>	<b>70,220,000</b>	<b>62,385,000</b>	<b>579,504,000</b>		

**Storm Water Management**

5182101099	Engineering Services Staffing Costs - Storm	1,700,000	1,700,000	1,700,000	1,700,000	10,200,000	2021	2046
5182117152	Right of Way Drainage Program	1,500,000	1,500,000	1,500,000	1,500,000	9,000,000	2021	2046
5182160622	SWM Facility Maintenance Program	1,500,000	1,200,000	1,200,000	1,200,000	7,200,000	2021	2046
5182117458	Catch Basin Replacement/Rehabilitation Program	1,000,000	500,000	500,000	500,000	3,000,000	2021	2046
5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.	500,000	250,000	250,000	250,000	1,500,000	2021	2046
5182095800	Flooding & Drainage Master Plan Capital Improvements	450,000	550,000	440,000	170,000	-	2020	2025
5181767723	Grafton and Centennial Stormwater Pumping Stations - Standby Power	450,000	-	-	-	50,000	2017	2026
5181967500	DMAF- CSO Backflow Preventors	390,000	2,250,000	-	-	-	2019	2023
5182155421	Stormwater System Planning Program	380,000	380,000	380,000	380,000	2,280,000	2022	2046
5182255210	Storm Water Outfall Investigations	300,000	300,000	300,000	300,000	1,800,000	2022	2046
5182174680	Storm Sewer Network Planning - Transportation Program	260,000	660,000	660,000	660,000	3,960,000	2021	2046
5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services	250,000	250,000	250,000	250,000	1,500,000	2021	2046
5182172074	Contingency for Unscheduled Works Program	180,000	-	180,000	-	540,000	2022	2046
5182174951	Shoreline Protection Program	150,000	400,000	750,000	150,000	2,600,000	2021	2046
5182149555	QA-QC Service Contract Program	150,000	150,000	150,000	150,000	900,000	2021	2046
5182162073	Field Data Systems Program	110,000	110,000	110,000	110,000	660,000	2021	2046
5182160533	Trenchless Manhole Rehabilitation	70,000	70,000	70,000	70,000	420,000	2021	2046
5182161740	Unscheduled Manhole and Sewermain Replacement Program	50,000	50,000	50,000	50,000	300,000	2021	2046
5182155556	Mapping Update Program	40,000	40,000	40,000	40,000	240,000	2021	2046
5182180090	Storm Water Management Program	-	4,000,000	4,000,000	4,000,000	24,000,000	2021	2046
5182157545	Stormwater Computer Model	-	1,080,000	1,080,000	60,000	1,680,000	2023	2046
5182174840	Stormwater Analysis for Bridge, Culvert and Ditch Replacement Projects	-	500,000	500,000	500,000	3,000,000	2021	2046
5182155347	Watercourse Erosion Sites Rehabilitation and Mitigation	-	280,000	280,000	3,000,000	6,720,000	2021	2035
5182167751	Stormwater Infrastructure Criticality Assessment	-	280,000	280,000	280,000	1,680,000	2021	2046
5182455422	Stormwater Master Plan	-	-	1,100,000	-	1,100,000	2024	2029

5182355075 Watershed Project Coordination and Stewardship Action Plans	-	-	170,000	170,000	1,020,000	2024	2046
5182696475 Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	67,500,000	2021	2029
<b>Sub - Total Storm Water Management</b>	<b>9,430,000</b>	<b>16,500,000</b>	<b>15,940,000</b>	<b>15,490,000</b>	<b>152,850,000</b>		
<b>Total City-Wide Projects</b>	<b>160,103,253</b>	<b>107,537,000</b>	<b>136,165,000</b>	<b>126,947,000</b>	<b>1,034,307,000</b>		
<b>Grand Total</b>	<b>310,436,253</b>	<b>223,117,000</b>	<b>291,280,000</b>	<b>274,455,000</b>	<b>1,343,243,000</b>		

# WATER

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# WATER

## 2022 Funding By Source

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**City of Hamilton  
Water System  
2022 Capital Budget Project List  
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5142171328	Southcote - Garner to Highway 403 Bridge	3,040,000			1,520,000			1,520,000	-	1,520,000
	5142280280	First Road West Watermain - Bedrock to Glover Mountain	830,000		498,000	332,000			-		
	5142280281	Dickenson Road West Watermain - Garth Street Extension to 870m easterly	510,000			510,000			-		
Coordinated - Network Extension Total			4,380,000		498,000	2,362,000			1,520,000	-	1,520,000
Coordinated - Other	5142160501	Watermain Rehabilitation/Replacement Coordinated with Development	1,000,000						1,000,000	1,000,000	
	5142299999	Rates Projects Included in Tax Budget - NOT TO BE SET UP IN PEOPLESOFT	2,320,000						2,320,000	2,320,000	
Coordinated - Other Total			3,320,000					3,320,000	3,320,000		
Coordinated - Replacement	5142171303	Marion - Longwood to Dromore	440,000						440,000	440,000	
	5142271305	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,000,000						1,000,000		1,000,000
	5142271312	Strathearne - Main to Britannia	900,000						900,000		900,000
	5142271306	Kelvin - Old Orchard to south end	100,000						100,000	100,000	
	5142271308	Concession / Mountain Brow - Upper Gage to Oakcrest	2,200,000						2,200,000		2,200,000
	5142271296	Governor's - Main to Ogilvie (Bridge 296)	400,000						400,000	400,000	
	5142271022	Burlington - James to Ferguson	1,200,000						1,200,000		1,200,000
	5142271214	Fairfield - Barton to Britannia	500,000						500,000		500,000
5142271325	CCBF - Corktown Neighbourhood	400,000					400,000	-			
Coordinated - Replacement Total			7,140,000					400,000	6,740,000	940,000	5,800,000
Coordinated Replacement (50/50)	5142170000	Rates Share of Road Reconstruction - NOT TO BE SET UP IN PEOPLESOFT	4,130,000						4,130,000	4,130,000	
	Coordinated Replacement (50/50) Total			4,130,000					4,130,000	4,130,000	
Demolition / Disposal	5142067420	St. Joseph's Tank Pulsation Dampener (HD002STK)	440,000						440,000	440,000	
Demolition / Disposal Total			440,000						440,000	440,000	
Enhancement	5142166608	Lynden Water System - Phase 2 Treatment	110,000						110,000	110,000	
Enhancement Total			110,000						110,000	110,000	
Expansion / Extension	5141996951	Binbrook Feedermain via Fletcher (W-30)	2,530,000			2,530,000			-		
	5142260280	Upper Centennial Watermain Extension	500,000						500,000		500,000
Expansion / Extension Total			3,030,000			2,530,000			500,000		500,000
Feasibility Plans / EA's/ Studies	5141855777	Water infrastructure Analysis - Growth and Economic Opportunities	330,000		-				330,000	330,000	
	5142096520	Garner Road Trunk Watermain - Southcote to Wilson (W-09)	13,550,000			13,550,000			-		
	5142155010	Water Systems Planning Program	600,000						600,000	600,000	
	5142155022	Engineering Consultant Watermain Projects	400,000						400,000	400,000	
	5142155247	Alterations to the Drinking Water System	150,000						150,000	150,000	
	5142155556	Mapping Update Program	40,000						40,000	40,000	
	5142157545	Water - Computer Model	150,000						150,000	150,000	
	5142257000	Vertical Asset Management Program	280,000						280,000	280,000	
	5142255264	City-Wide Water Master Plan	280,000			280,000			-		
	5142255280	Airport Employment Growth District (AEGD) Water, Wastewater and Stormwater Master Plan Update	700,000			700,000			-		
	5142251112	Inventory Bar Coding System, Equipment & Consulting	200,000						200,000	200,000	
	5142257800	Water Facility Asset Management Implementation Plan	100,000						100,000	100,000	
	5142255851	Water Efficiency Plan/Program	115,000						115,000	115,000	
5142267510	Water System Studies & Continual Improvement Initiatives	1,100,000						1,100,000	1,100,000		
Feasibility Plans / EA's/ Studies Total			17,995,000		-	14,530,000			3,465,000	3,465,000	
Licenses	5142162073	Field Data Systems Program	210,000					100,000	110,000	110,000	
Licenses Total			210,000					100,000	110,000	110,000	

**City of Hamilton  
Water System  
2022 Capital Budget Project List  
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
New	5141495551	PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	5,500,000			5,500,000			-		
	5141767650	New Greensville Communal Well	150,000						150,000	-	150,000
	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)	900,000						900,000	-	900,000
	5142161502	Water Meter - Installation/Replacement/Repair - General Maintenance	4,270,000				640,000		3,630,000	3,630,000	
	5142151110	Fleet Additions	1,162,000					1,162,000	-	-	
	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station	550,000						550,000	-	550,000
	5142467224	New PD2 Water Pumping Station (CASH FLOWED)	2,650,000						2,650,000		2,650,000
	<b>New Total</b>			<b>15,182,000</b>			<b>5,500,000</b>	<b>640,000</b>	<b>1,162,000</b>	<b>7,880,000</b>	<b>3,630,000</b>
Rehabilitation / Renovation	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	2,470,000						2,470,000	-	2,470,000
	5141760754	Kenilworth Transmission Watermain Renewal	600,000						600,000	600,000	
	5141761777	Beach Trunkmain Rehab	1,500,000						1,500,000	1,500,000	
	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	550,000			412,500			137,500	137,500	-
	5141867651	HD007 Highland Rd Reservoir Upgrades	170,000						170,000	170,000	
	5141967375	HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades	330,000						330,000	330,000	
	5142067450	Lee Smith Reservoir (HDR00) Upgrades	170,000						170,000	170,000	
	5142111101	Road Cut Restoration Program	7,965,000				5,400,000	2,565,000	-	-	
	5142157626	Critical Watermain Inspection Program	731,000					131,000	600,000	600,000	
	5142160072	Watermain Structural Lining	5,300,000				5,300,000		-	-	
	5142166713	Water Maintenance Capital Program	1,000,000						1,000,000	1,000,000	
	5142169075	City Environmental Lab Improvements Program	340,000						340,000	340,000	
	5142166110	Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)	1,378,000			627,000			751,000	11,000	740,000
	5142167420	HDR18 Glancaster Reservoir Upgrades	440,000						440,000	-	440,000
	5142167421	HDR11 Woodley Lane Reservoir Upgrades	170,000						170,000	170,000	
	5142261741	Resetting or Adjusting of Water Utility Structures	250,000						250,000	250,000	
	5142261240	Woodward Treatment Plant Filter Building - Flume Watermain Lining	2,000,000						2,000,000	2,000,000	
	5142267585	Diesel Fuel Storage Compliance Upgrades	500,000						500,000	500,000	
	5141966420	Woodward WTP Chlorine Chemical Building	1,380,000						1,380,000		1,380,000
	5142266712	Water Maintenance - Rebuild, Replacement and New Capital	400,000						400,000	400,000	
5142266220	Water Treatment Plant - Clearwells Concrete Restoration Upgrades	600,000						600,000	600,000		
5142266320	Woodward Water Treatment Plant - Low Lift Pumping Station Intake Repairs	830,000						830,000	830,000		
<b>Rehabilitation / Renovation Total</b>			<b>29,074,000</b>			<b>1,039,500</b>	<b>10,700,000</b>	<b>2,696,000</b>	<b>14,638,500</b>	<b>9,608,500</b>	<b>5,030,000</b>
Replacement	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning	140,000						140,000	140,000	
	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	220,000			165,000			55,000	55,000	
	5141966151	SCADA Maintenance Program	150,000						150,000	150,000	
	5142066310	WTP Pre-Treatment Isolation Valves	550,000						550,000	550,000	
	5142149555	QA-QC Service Contract Program	290,000					140,000	150,000	150,000	
	5142160080	Valve Replacement Program	3,780,000					1,170,000	2,610,000	2,610,000	
	5142160577	Metallic Watermain Condition Assessment Program	815,000					185,000	630,000	630,000	
	5142160711	PW Capital Water Consumption Program	250,000						250,000	250,000	
	5142160750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	2,850,000				1,300,000		1,550,000	1,550,000	
	5142162078	Substandard Water Service Replacement Program	2,350,000						2,350,000	2,350,000	
	5142271318	Eastmount Neighbourhood - Water	210,000					50,000	160,000	160,000	
5142260081	Large Valve Replacement - Nash	2,000,000		2,000,000				-	-		
5142260082	Large Valve Replacement - Longwood and Glenside	1,000,000		1,000,000				-	-		
<b>Replacement Total</b>			<b>14,605,000</b>	<b>3,000,000</b>		<b>165,000</b>	<b>1,300,000</b>	<b>1,545,000</b>	<b>8,595,000</b>	<b>8,595,000</b>	
Safety/ Security	5142266871	Hamilton Water Capital Security Plan	1,030,000						1,030,000	1,030,000	

**City of Hamilton  
Water System  
2022 Capital Budget Project List  
(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
	5142266351	Woodward SCADA OT (Operating Technology) Security Program	125,000						125,000	125,000	
Safety/ Security Total			1,155,000						1,155,000	1,155,000	
Staffing Costs	5142101099	Engineering Services Staffing Costs - Water	4,500,000					464,000	4,036,000	4,036,000	
Staffing Costs Total			4,500,000					464,000	4,036,000	4,036,000	
Grand Total			105,271,000	3,000,000	498,000	26,126,500	12,640,000	6,367,000	56,639,500	39,539,500	17,100,000

# WATER

## 2022 – 2031 Capital Budget List

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**CITY OF HAMILTON  
WATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net			
Coordinated - Network Extension	5142171328	Southcote - Garner to Highway 403 Bridge	-	(80,000)	3,040,000	1,520,000	-	-	-	-	-	-	-	-	3,040,000	1,440,000	2021	2022	
	5142280280	First Road West Watermain - Bedrock to Glover Mountain	-	-	830,000	-	-	-	-	-	-	-	-	-	830,000	-	2022	2022	
	5142280281	Dickenson Road West Watermain - Garth Street Extension to 870m easterly	-	-	510,000	-	-	-	-	-	-	-	-	-	510,000	-	2022	2022	
	5142380320	RHBP - Twenty Rd Extension - Glover to Trinity Church	-	-	-	-	565,000	-	-	-	-	-	-	-	565,000	-	2023	2023	
	5142580580	RHBP - Nebo - 900m s/o Twenty to Dickenson	-	-	-	-	-	-	-	-	400,000	-	-	-	400,000	-	2021	2039	
	5142671108	Rymal - Glanaster to Upper Paradise	-	-	-	-	-	-	-	-	-	-	340,000	340,000	340,000	340,000	2026	2026	
	5142880884	RHBP - Dickenson - Nebo to 800m e/o Nebo	-	-	-	-	-	-	-	-	-	-	900,000	-	900,000	-	2028	2028	
5143080388	Lewis - Barton to Hwy 8	-	-	-	-	-	-	-	-	-	-	500,000	-	500,000	-	2023	2030		
<b>Coordinated - Network Extension Total</b>			-	(80,000)	4,380,000	1,520,000	565,000	-	-	-	400,000	-	1,740,000	340,000	7,085,000	1,780,000			
Coordinated - Other	5142160501	Watermain Rehabilitation/Replacement Coordinated with Development	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	6,000,000	6,000,000	11,000,000	11,000,000	2021	2046	
	5142299999	Rates Projects Included in Tax Budget - NOT TO BE SET UP IN PEOPLESOFT	-	-	2,320,000	2,320,000	2,120,000	2,120,000	1,410,000	1,410,000	360,000	360,000	4,410,000	4,410,000	10,620,000	10,620,000	2022	2046	
<b>Coordinated - Other Total</b>			1,000,000	1,000,000	3,320,000	3,320,000	3,120,000	3,120,000	2,410,000	2,410,000	1,360,000	1,360,000	10,410,000	10,410,000	21,620,000	21,620,000			
Coordinated - Replacement	5142171301	Watermain Replacement Coordinated with Roads	-	-	-	-	-	-	-	-	-	-	3,400,000	3,400,000	3,400,000	3,400,000	2027	2046	
	5142171303	Marion - Longwood to Dromore	-	-	440,000	440,000	-	-	-	-	-	-	-	-	440,000	440,000	2021	2022	
	5142271022	Burlington - James to Ferguson	-	-	1,200,000	1,200,000	-	-	-	-	-	-	-	-	1,200,000	1,200,000	2022	2022	
	5142271214	Fairfield - Barton to Britannia	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2022	2022	
	5142271296	Governor's - Main to Oglivie (Bridge 296)	-	-	400,000	400,000	-	-	-	-	-	-	-	-	400,000	400,000	2022	2022	
	5142271305	Glennmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	-	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	1,000,000	1,000,000	2022	2022	
	5142271306	Kelvin - Old Orchard to south end	-	-	100,000	100,000	-	-	-	-	-	-	-	-	100,000	100,000	2022	2022	
	5142271308	Concession / Mountain Brow - Upper Gage to Oakcrest	-	-	2,200,000	2,200,000	-	-	-	-	-	-	-	-	2,200,000	2,200,000	2022	2022	
	5142271312	Strathearne - Main to Britannia	-	-	900,000	900,000	-	-	-	-	-	-	-	-	900,000	900,000	2022	2022	
	5142271325	CCBF - Corktown Neighbourhood	-	-	400,000	-	-	-	-	-	-	-	-	-	400,000	-	2022	2022	
	5142371304	Hatt & Bond - King to Market	-	-	-	-	800,000	800,000	-	-	-	-	-	-	800,000	800,000	2021	2023	
	5142371307	Duke - Hess to west end & Robinson - Queen to west end	-	-	-	-	50,000	50,000	300,000	300,000	-	-	-	-	-	350,000	350,000	2023	2024
	5142371322	Barton - Sherman to Ottawa	-	-	-	-	10,000,000	10,000,000	-	-	-	-	-	-	10,000,000	10,000,000	2023	2023	
	5142371327	Upper Centennial - Rymal to Mud	-	-	-	-	100,000	100,000	6,000,000	6,000,000	-	-	-	-	6,100,000	6,100,000	2023	2024	
	5142471106	Rymal - Upper Ottawa to Dartnall	-	-	-	-	-	-	1,200,000	1,200,000	-	-	-	-	1,200,000	1,200,000	2024	2024	
	5142471202	Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	-	-	-	-	1,550,000	1,550,000	-	-	-	-	1,550,000	1,550,000	2024	2024	
	5142471304	Ferguson/Foster/Walnut/Patrick	-	-	-	-	-	-	1,710,000	1,710,000	-	-	-	-	1,710,000	1,710,000	2022	2024	
	5142471308	Scenic - Chateau Crt to Upper Paradise	-	-	-	-	-	-	1,750,000	1,750,000	-	-	-	-	1,750,000	1,750,000	2024	2024	
	5142471314	Pinelands / Teal / Garden / Community / Greensfield	-	-	-	-	-	-	1,830,000	1,830,000	-	-	-	-	1,830,000	1,830,000	2024	2024	
	5142471315	Strathearne - Brampton to gate at north end	-	-	-	-	-	-	820,000	820,000	-	-	-	-	820,000	820,000	2024	2024	
	5142571106	Rymal - Upper Gage to Upper Ottawa	-	-	-	-	-	-	-	-	950,000	950,000	-	-	950,000	950,000	2025	2025	
	5142571201	Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	-	-	-	-	-	1,400,000	1,400,000	-	-	1,400,000	1,400,000	2025	2025	
	5142571303	Burlington & Industrial - Birch to Gage	-	-	-	-	-	-	2,820,000	2,820,000	-	-	-	-	2,820,000	2,820,000	2025	2025	
	5142571305	Upper James - Mohawk to Fennell	-	-	-	-	-	-	3,070,000	3,070,000	-	-	-	-	3,070,000	3,070,000	2025	2025	
	5142571306	Barton - Ottawa to Kenilworth	-	-	-	-	-	-	4,700,000	4,700,000	-	-	-	-	4,700,000	4,700,000	2025	2025	
	5142671103	Rymal - Upper Sherman to Upper Gage	-	-	-	-	-	-	-	-	-	-	1,500,000	1,500,000	1,500,000	1,500,000	2026	2026	
	5142671305	Dundurn - CPR bridge (s/o Main St) to King	-	-	-	-	-	-	-	-	-	-	430,000	430,000	430,000	430,000	2026	2026	
	5142671307	Hatt - Market to east end & York / Kerr	-	-	-	-	-	-	-	-	-	-	1,060,000	1,060,000	1,060,000	1,060,000	2026	2026	
	5142671309	Wilson - Wentworth to Sherman	-	-	-	-	-	-	-	-	-	-	820,000	820,000	820,000	820,000	2026	2026	
	5142671314	Brampton - Parkdale to Woodward & Brighton	-	-	-	-	-	-	-	-	-	-	810,000	810,000	810,000	810,000	2026	2026	
	5142671323	Fennell - Upper James to Upper Wellington	-	-	-	-	-	-	-	-	-	-	670,000	670,000	670,000	670,000	2026	2026	
	5142671324	Osler - South St to West Park	-	-	-	-	-	-	-	-	-	-	900,000	900,000	900,000	900,000	2026	2028	
	5142771106	Wentworth - Barton to Burlington	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027	
	5142771109	Southcote - Hwy 403 bridge to Oldoakes / Dorval	-	-	-	-	-	-	-	-	-	-	2,100,000	2,100,000	2,100,000	2,100,000	2027	2027	
	5142771309	Gray - King to Hwy 8	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027	
	5142771312	Aberdeen - Queen to Studholme	-	-	-	-	-	-	-	-	-	-	3,200,000	3,200,000	3,200,000	3,200,000	2027	2027	
	5142771314	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	2,500,000	2,500,000	2,500,000	2,500,000	2027	2027	
	5142771315	Barton St BIA - Wentworth to Sherman	-	-	-	-	-	-	-	-	-	-	3,440,000	3,440,000	3,440,000	3,440,000	2027	2027	
	5142871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2028	2028	
	5142871118	Charlton - Walnut to Sherman Access	-	-	-	-	-	-	-	-	-	-	2,700,000	2,700,000	2,700,000	2,700,000	2028	<12/31/22	
	5142871304	Birge - Emerald to Cheever	-	-	-	-	-	-	-	-	-	-	240,000	240,000	240,000	240,000	2028	2028	
	5142871307	Barton St BIA - Ferguson to Wentworth	-	-	-	-	-	-	-	-	-	-	4,440,000	4,440,000	4,440,000	4,440,000	2028	2028	
	5142871308	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	2,150,000	2,150,000	2,150,000	2,150,000	2028	2028	
	5142871311	Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	1,640,000	1,640,000	1,640,000	1,640,000	2028	2028	
	5142871312	Cairns / East St N / Spencer / (Hunter Neighbourhood)	-	-	-	-	-	-	-	-	-	-	630,000	630,000	630,000	630,000	2028	2028	
	5142971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	850,000	850,000	850,000	850,000	2029	2029	
5142971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	2,200,000	2,200,000	2,200,000	2,200,000	2029	2029		
5142971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	4,000,000	4,000,000	4,000,000	4,000,000	2029	2029		
5142971117	Green - Carla to Barton	-	-	-	-	-	-	-	-	-	-	1,300,000	1,300,000	1,300,000	1,300,000	2029	2029		
5142971303	Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	720,000	720,000	720,000	720,000	2029	2029		
5142971305	Carling / Macklin St S / Olmstead / Tope (Westdale South)	-	-	-	-	-	-	-	-	-	-	680,000	680,000	680,000	680,000	2029	2029		

**CITY OF HAMILTON  
WATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5142971310	Upper Wellington - Bryna to Mohawk	-	-	-	-	-	-	-	-	-	-	1,050,000	1,050,000	1,050,000	1,050,000	2029	2029
	5142971311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	820,000	820,000	820,000	820,000	2029	2029
	5142971316	Sanford - Main to Cannon	-	-	-	-	-	-	-	-	-	-	1,410,000	1,410,000	1,410,000	1,410,000	2029	2029
	5143071129	Nash - Barton to 350 metres north of Bancroft	-	-	-	-	-	-	-	-	-	-	1,100,000	1,100,000	1,100,000	1,100,000	2030	2030
	5143071303	Hughson - Wilson to Barton	-	-	-	-	-	-	-	-	-	-	550,000	550,000	550,000	550,000	2030	2030
	5143071304	Evans - Wellington to East	-	-	-	-	-	-	-	-	-	-	390,000	390,000	390,000	390,000	2030	2030
	5143071308	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	-	-	-	-	-	-	-	-	-	-	950,000	950,000	950,000	950,000	2030	2030
Coordinated - Replacement Total			-	-	7,140,000	6,740,000	10,950,000	10,950,000	15,160,000	15,160,000	12,940,000	12,940,000	54,650,000	54,650,000	100,840,000	100,440,000		
Coordinated Replacement (50/50)	5142170000	Rates Share of Road Reconstruction - NOT TO BE SET UP IN PEOPLESOFT	-	-	4,130,000	4,130,000	3,790,000	3,790,000	4,930,000	4,930,000	4,690,000	4,690,000	56,400,000	56,400,000	73,940,000	73,940,000	2022	2046
Coordinated Replacement (50/50) Total			-	-	4,130,000	4,130,000	3,790,000	3,790,000	4,930,000	4,930,000	4,690,000	4,690,000	56,400,000	56,400,000	73,940,000	73,940,000		
Demolition / Disposal	5142067420	St. Joseph's Tank Pulsation Dampener (HD002STK)	20,000	20,000	440,000	440,000	-	-	-	-	-	-	-	-	460,000	460,000	2020	2022
Demolition / Disposal Total			20,000	20,000	440,000	440,000	-	-	-	-	-	-	-	-	460,000	460,000		
Enhancement	5142166608	Lynden Water System - Phase 2 Treatment	210,000	210,000	110,000	110,000	-	-	-	-	-	-	-	-	320,000	320,000	2021	2022
Enhancement Total			210,000	210,000	110,000	110,000	-	-	-	-	-	-	-	-	320,000	320,000		
Expansion / Extension	5141796572	PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	2,200,000	1,878,000	-	-	1,100,000	275,000	7,270,000	1,817,500	-	-	-	-	10,570,000	3,970,500	2017	2024
	5141995951	PS HD019 (Binbrook) Capacity Upgrade (W-20)	20,000	20,000	-	-	-	-	280,000	-	-	-	2,150,000	-	2,450,000	20,000	2019	2026
	5141996951	Binbrook Feedermain via Fletcher (W-30)	3,920,000	50,000	2,530,000	-	-	-	-	-	-	-	-	-	6,450,000	50,000	2019	2022
	5142196011	Intensification Infrastructure Upgrades Program - Water	-	-	-	-	400,000	200,000	-	-	400,000	200,000	1,200,000	600,000	2,000,000	1,000,000	2023	2045
	5142260280	Upper Centennial Watermain Extension	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2022	2022
	5142396850	Locke St Trunk Watermain - York - Locke to Cannon @ Caroline (W-19)	-	-	-	-	2,530,000	-	-	-	-	-	-	-	2,530,000	-	2023	2023
	5142495251	Highland Reservoir HDR07 (W-11) Expansion (CASH FLOWED)	-	-	-	-	-	1,980,000	-	5,220,000	-	5,220,000	-	-	12,420,000	-	2021	2026
	5142496850	Locke St Trunk Watermain - Main to York (W-19)	-	-	-	-	-	2,200,000	-	-	-	-	-	-	2,200,000	-	2024	2024
	5142596250	HD07A Feedermain (W-22)	-	-	-	-	-	-	-	1,160,000	-	7,700,000	-	-	8,860,000	-	2021	2026
	5143080081	South Service Rd - Millen to Dewitt	-	-	-	-	-	-	-	-	-	-	2,280,000	-	2,280,000	-	2023	2044
	5143080380	South Service Rd - Fruitland to Jones	-	-	-	-	-	-	-	-	-	-	1,280,000	-	1,280,000	-	2023	2030
	5143166110	Water Treatment Plant - Process Upgrades Phase 3 (CASH FLOWED)	-	-	-	-	-	-	-	-	-	1,100,000	228,800	1,100,000	228,800	2031	2034	
	5143180180	Glover - Barton to South Service Rd Extension	-	-	-	-	-	-	-	-	-	-	790,000	-	790,000	-	2024	2031
	5143180182	Shaver - Kastura to Westview	-	-	-	-	-	-	-	-	-	-	225,000	168,750	225,000	168,750	2031	2032
	5143180381	Dewitt CNR Tracks to Barton	-	-	-	-	-	-	-	-	-	-	610,000	-	610,000	-	2024	2031
Expansion / Extension Total			6,140,000	1,948,000	3,030,000	500,000	4,030,000	475,000	11,730,000	1,817,500	6,780,000	200,000	22,555,000	997,550	54,265,000	5,938,050		
Feasibility Plans / EA's/ Studies	5141855777	Water Infrastructure Analysis - Growth and Economic Opportunities	920,000	920,000	330,000	330,000	-	-	-	-	-	-	-	-	1,250,000	1,250,000	2018	2022
	5142096520	Garner Road Trunk Watermain - Southcote to Wilson (W-09)	-	(3,390,000)	13,550,000	-	-	-	-	-	-	-	-	-	13,550,000	(3,390,000)	2020	2023
	5142155010	Water Systems Planning Program	-	-	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,000,000	6,000,000	2022	2040
	5142155022	Engineering Consultant Watermain Projects	300,000	300,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	2,400,000	2,400,000	4,300,000	4,300,000	2021	2046
	5142155247	Alterations to the Drinking Water System	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,650,000	1,650,000	2021	2046
	5142155556	Mapping Update Program	115,000	115,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	515,000	515,000	2021	2046
	5142155713	Pressure Districts and Drinking Water System Optimization	-	-	-	-	420,000	420,000	170,000	170,000	170,000	170,000	1,020,000	1,020,000	1,780,000	1,780,000	2022	2031
	5142157545	Water - Computer Model	170,000	170,000	150,000	150,000	280,000	280,000	280,000	280,000	280,000	280,000	1,680,000	1,680,000	2,840,000	2,840,000	2021	2046
	5142167752	Water Outstation Inspections - Asset Management	50,000	50,000	-	-	800,000	800,000	800,000	800,000	800,000	800,000	6,300,000	6,300,000	8,750,000	8,750,000	2021	2046
	5142251112	Inventory Bar Coding System, Equipment & Consulting	-	-	200,000	200,000	-	-	-	-	-	-	-	-	200,000	200,000	2022	2022
	514225264	City-Wide Water Master Plan	-	-	280,000	-	-	-	-	-	-	-	550,000	-	830,000	-	2022	2028
	514225280	Airport Employment Growth District (AEGD) Water, Wastewater and Stormwater Master Plan Update	-	-	700,000	-	-	-	-	-	-	-	-	-	700,000	-	2022	2022
	5142255851	Water Efficiency Plan/Program	-	-	115,000	115,000	117,000	117,000	120,000	120,000	122,000	122,000	803,000	803,000	1,277,000	1,277,000	2022	2041
	5142257000	Vertical Asset Management Program	280,000	280,000	280,000	280,000	-	-	-	-	-	-	-	-	560,000	560,000	2021	2022
	5142257800	Water Facility Asset Management Implementation Plan	-	-	100,000	100,000	280,000	280,000	110,000	110,000	-	-	-	-	490,000	490,000	2022	2024
	5142267510	Water System Studies & Continual Improvement Initiatives	-	-	1,100,000	1,100,000	-	-	-	-	-	-	-	-	1,100,000	1,100,000	2022	2022
	5143066151	2030 SCADA Master Plan	-	-	-	-	-	-	-	-	-	-	5,125,000	5,125,000	5,125,000	5,125,000	2029	2034
Feasibility Plans / EA's/ Studies Total			1,985,000	(1,405,000)	17,995,000	3,465,000	3,087,000	3,087,000	2,670,000	2,670,000	2,562,000	2,562,000	22,618,000	22,068,000	50,917,000	32,447,000		
Licenses	5142162073	Field Data Systems Program	110,000	110,000	210,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,310,000	1,210,000	2021	2046
Licenses Total			110,000	110,000	210,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,310,000	1,210,000		
New	5141395354	PD18 (Ancaster) Water Servicing Strategy (W-14) (CASH FLOWED)	220,000	(180,000)	-	-	6,080,000	3,040,000	6,080,000	3,040,000	-	-	-	-	12,380,000	5,900,000	2013	2024
	5141495551	PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	250,000	250,000	5,500,000	-	5,500,000	-	-	-	-	-	-	-	11,250,000	250,000	2014	2023
	5141767650	New Greenville Communal Well	320,000	320,000	150,000	150,000	150,000	150,000	3,500,000	3,500,000	3,500,000	3,500,000	-	-	7,620,000	7,620,000	2017	2025

**CITY OF HAMILTON  
WATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net			
	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)	80,000	80,000	900,000	900,000	-	-	6,150,000	6,150,000	-	-	-	-	7,130,000	7,130,000	2018	2024	
	5142151110	Fleet Additions	1,160,000	1,160,000	1,162,000	-	460,000	460,000	120,000	120,000	130,000	130,000	1,050,000	1,050,000	4,082,000	2,920,000	2021	2046	
	5142161502	Water Meter - Installation/Replacement/Repair - General Maintenance	3,400,000	2,760,000	4,270,000	3,630,000	4,360,000	3,720,000	4,450,000	3,810,000	3,550,000	2,910,000	22,870,000	19,030,000	42,900,000	35,860,000	2021	2046	
	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station	470,000	470,000	550,000	550,000	3,150,000	3,150,000	-	-	-	-	-	-	4,170,000	4,170,000	2021	2023	
	5142441226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	-	-	-	-	2,625,000	2,625,000	5,125,000	5,125,000	-	-	-	-	7,750,000	7,750,000	2023	2024	
	5142467224	New PD2 Water Pumping Station (CASH FLOWED)	-	-	2,650,000	2,650,000	-	-	1,100,000	1,100,000	5,150,000	5,150,000	5,150,000	5,150,000	14,050,000	14,050,000	2022	2026	
	5142495552	P.S. HD07A - New District 7 (Elfrida area) Pumping Station (W-21)	-	-	-	-	-	-	250,000	-	-	-	20,050,000	-	20,300,000	-	2024	2027	
<b>New Total</b>			<b>5,900,000</b>	<b>4,860,000</b>	<b>15,182,000</b>	<b>7,880,000</b>	<b>22,325,000</b>	<b>13,145,000</b>	<b>26,775,000</b>	<b>22,845,000</b>	<b>12,330,000</b>	<b>11,690,000</b>	<b>49,120,000</b>	<b>25,230,000</b>	<b>131,632,000</b>	<b>85,650,000</b>			
Rehabilitation / Renovation	5141269250	HVAC system Upgrades at New Environmental Laboratory and Administration Building	5,420,000	5,420,000	-	-	-	-	110,000	110,000	880,000	880,000	-	-	6,410,000	6,410,000	2011	2025	
	5141567520	Stone Church/Garth Water (HDR05) Reservoir	5,312,000	5,312,000	-	-	3,125,000	3,125,000	2,775,000	2,775,000	-	-	-	-	11,212,000	11,212,000	2015	2024	
	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	2,600,000	2,600,000	2,470,000	2,470,000	-	-	-	-	-	-	-	-	5,070,000	5,070,000	2015	2022	
	5141667421	Glancaster Rd & Hwy 53 Pumping Station (HD018) Upgrades (CASH FLOWED)	10,510,000	10,510,000	-	-	-	-	-	-	-	-	-	5,500,000	5,500,000	16,010,000	16,010,000	2016	2029
	5141695883	PS HD016 (York and Valley) Capacity Upgrade, Standby Power & Building Expansion (W-26) (CASH FLOWED)	4,320,000	3,060,000	-	-	3,950,000	395,000	4,150,000	415,000	550,000	55,000	-	-	12,970,000	3,925,000	2016	2025	
	5141760754	Kenilworth Transmission Watermain Renewal	2,000,000	2,000,000	600,000	600,000	-	-	-	-	-	-	-	-	2,600,000	2,600,000	2017	2022	
	5141761777	Beach Trunkmain Rehab	7,700,000	7,700,000	1,500,000	1,500,000	-	-	-	-	-	-	-	-	9,200,000	9,200,000	2017	2022	
	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	23,820,000	13,260,000	550,000	137,500	13,930,000	3,482,500	15,650,000	3,912,500	15,650,000	3,912,500	-	-	69,600,000	24,705,000	2017	2025	
	5141867651	HD007 Highland Rd Reservoir Upgrades	30,000	30,000	170,000	170,000	1,000,000	1,000,000	-	-	-	-	-	-	1,200,000	1,200,000	2018	2023	
	5141966420	Woodward WTP Chlorine Chemical Building	660,000	660,000	1,380,000	1,380,000	-	-	-	-	-	-	-	-	2,040,000	2,040,000	2019	2022	
	5141967375	HD001 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades	14,360,000	14,360,000	330,000	330,000	-	-	-	-	-	-	-	-	14,690,000	14,690,000	2019	2022	
	5142067450	Lee Smith Reservoir (HDR00) Upgrades	110,000	110,000	170,000	170,000	-	-	-	-	-	-	-	-	280,000	280,000	2020	2022	
	5142111101	Road Cut Restoration Program	5,400,000	5,400,000	7,965,000	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	32,400,000	61,965,000	54,000,000	2021	2046
	5142157626	Critical Watermain Inspection Program	600,000	600,000	731,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,731,000	6,600,000	2021	2046
	5142160072	Watermain Structural Lining	7,700,000	7,700,000	5,300,000	-	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	37,200,000	37,200,000	68,800,000	63,500,000	2021	2046
	5142160073	Structural Watermain Lining - Charlton Ave 750mm	150,000	150,000	-	-	-	-	-	-	-	-	-	2,680,000	2,680,000	2,830,000	2,830,000	2021	2029
	5142166110	Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)	1,378,000	1,378,000	1,378,000	751,000	2,705,000	1,473,000	19,175,000	10,442,000	54,838,000	29,862,000	66,706,000	36,324,000	146,180,000	80,230,000	2021	2028	
	5142166713	Water Maintenance Capital Program	-	-	1,000,000	1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	19,000,000	19,000,000	2022	2046	
	5142167420	HDR18 Glancaster Reservoir Upgrades	440,000	440,000	440,000	440,000	1,430,000	1,430,000	1,100,000	1,100,000	-	-	-	-	3,410,000	3,410,000	2021	2024	
	5142167421	HDR11 Woodley Lane Reservoir Upgrades	1,600,000	1,600,000	170,000	170,000	500,000	500,000	-	-	-	-	-	-	2,270,000	2,270,000	2021	2023	
	5142169075	City Environmental Lab Improvements Program	275,000	275,000	340,000	340,000	190,000	190,000	90,000	90,000	50,000	50,000	300,000	300,000	1,245,000	1,245,000	2021	2046	
	5142261240	Woodward Treatment Plant Filter Building - Flume Watermain Lining	-	-	2,000,000	2,000,000	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2022	2022	
	5142261741	Resetting or Adjusting of Water Utility Structures	-	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,500,000	2,500,000	2022	2046	
	5142266220	Water Treatment Plant - Clearwells Concrete Restoration Upgrades	-	-	600,000	600,000	700,000	700,000	2,400,000	2,400,000	2,400,000	2,400,000	-	-	6,100,000	6,100,000	2022	2025	
	5142266320	Woodward Water Treatment Plant - Low Lift Pumping Station Intake Repairs	-	-	830,000	830,000	-	-	-	-	-	-	-	-	830,000	830,000	2022	2022	
	5142266712	Water Maintenance - Rebuild, Replacement and New Capital	-	-	400,000	400,000	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	1,200,000	2,200,000	2,200,000	2022	2046	
5142267585	Diesel Fuel Storage Compliance Upgrades	-	-	500,000	500,000	600,000	600,000	-	-	-	-	-	-	1,100,000	1,100,000	2022	2023		
5142567751	Water Outstation Upgrades - Asset Management Program	-	-	-	-	-	-	-	-	7,500,000	7,500,000	45,000,000	45,000,000	52,500,000	52,500,000	2023	2046		
5142661308	James and Charlton Intersection	-	-	-	-	-	-	-	-	-	-	940,000	940,000	940,000	940,000	2026	2026		
5142860072	WM Structural Lining - Dundas Valley Watermain	-	-	-	-	-	-	-	-	-	-	1,550,000	1,550,000	1,550,000	1,550,000	2028	2028		
<b>Rehabilitation / Renovation Total</b>			<b>94,385,000</b>	<b>82,565,000</b>	<b>29,074,000</b>	<b>14,638,500</b>	<b>42,780,000</b>	<b>27,545,500</b>	<b>60,100,000</b>	<b>35,894,500</b>	<b>96,518,000</b>	<b>59,309,500</b>	<b>210,576,000</b>	<b>180,194,000</b>	<b>533,433,000</b>	<b>400,147,000</b>			
Replacement	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning	180,000	180,000	140,000	140,000	3,850,000	3,850,000	-	-	-	-	-	-	4,170,000	4,170,000	2015	2023	
	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	260,000	(32,000)	220,000	55,000	2,650,000	662,500	4,350,000	1,087,500	-	-	-	-	7,480,000	1,773,000	2015	2024	
	5141966151	SCADA Maintenance Program	2,400,000	2,400,000	150,000	150,000	275,000	275,000	275,000	275,000	900,000	900,000	2,275,000	2,275,000	6,275,000	6,275,000	2019	2046	
	5142066310	WTP Pre-Treatment Isolation Valves	1,280,000	1,280,000	550,000	550,000	-	-	-	-	-	-	-	-	1,830,000	1,830,000	2020	2022	
	5142066350	WTP Chlorine Chemical Building	200,000	200,000	-	-	-	-	6,430,000	6,430,000	6,430,000	6,430,000	-	-	13,060,000	13,060,000	2020	2025	
	5142149555	QA-QC Service Contract Program	-	-	290,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,640,000	1,500,000	2021	2046	
	5142160080	Valve Replacement Program	1,200,000	1,200,000	3,780,000	2,610,000	1,720,000	1,720,000	1,450,000	1,450,000	1,780,000	1,780,000	8,550,000	8,550,000	18,480,000	17,310,000	2021	2046	
	5142160577	Metallic Watermain Condition Assessment Program	630,000	630,000	815,000	630,000	630,000	630,000	630,000	630,000	630,000	630,000	3,780,000	3,780,000	7,115,000	6,930,000	2021	2046	
	5142160711	PW Capital Water Consumption Program	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,750,000	2,750,000	2021	2046	
	5142160750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	3,000,000	3,000,000	2,850,000	1,550,000	2,850,000	2,850,000	2,350,000	2,350,000	2,350,000	2,350,000	14,100,000	14,100,000	27,500,000	26,200,000	2021	2046	
	5142161300	Stand-Alone Watermain Replacement	-	-	-	-	-	-	-	-	-	-	5,000,000	5,000,000	5,000,000	5,000,000	2028	2046	
	5142162078	Standard Water Service Replacement Program	2,750,000	2,750,000	2,350,000	2,350,000	2,350,000	2,350,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	23,450,000	23,450,000	2021	2046	
	5142171074	Contingency for Unscheduled Works Program	299,996	299,996	-	-	180,000	180,000	-	-	180,000	180,000	540,000	540,000	1,199,996	1,199,996	2021	2046	
	5142260081	Large Valve Replacement - Nash	-	-	2,000,000	-	-	-	-	-	-	-	-	-	2,000,000	-	2022	2022	
	5142260082	Large Valve Replacement - Longwood and Glenside																	

**CITY OF HAMILTON  
WATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5142271318	Eastmount Neighbourhood - Water	-	-	210,000	160,000	-	-	-	-	-	-	-	-	210,000	160,000	2022	2022
	5142461302	Bold - Queen to Locke	-	-	-	-	-	-	700,000	700,000	-	-	-	-	700,000	700,000	2021	2024
	5142472304	Bridge 451 - Hwy 5 E, 120m e/o Mill St S	-	-	-	-	-	-	140,000	140,000	-	-	-	-	140,000	140,000	2024	2031
	5142661301	Robinson - Hess to Park	-	-	-	-	-	-	-	-	-	-	950,000	950,000	950,000	950,000	2021	2026
	5142661306	Amelia - Queen to West End	-	-	-	-	-	-	-	-	-	-	560,000	560,000	560,000	560,000	2026	2026
	5142661307	Dallas - Upper Gage to West End	-	-	-	-	-	-	-	-	-	-	630,000	630,000	630,000	630,000	2026	2026
	5142661309	Myler - Sanford to Milton/Milton - Barton to Princess	-	-	-	-	-	-	-	-	-	-	470,000	470,000	470,000	470,000	2026	2026
	5142760311	George - Queen to Ray	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2027	2027
	5142761302	Edgemont - Main to King	-	-	-	-	-	-	-	-	-	-	660,000	660,000	660,000	660,000	2021	2028
	5142861302	Edward - Barnesdale to Lottridge	-	-	-	-	-	-	-	-	-	-	360,000	360,000	360,000	360,000	2028	2028
	5142861303	Hess - Markland to Aberdeen	-	-	-	-	-	-	-	-	-	-	460,000	460,000	460,000	460,000	2028	2028
	5142861305	John - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	810,000	810,000	810,000	810,000	2028	2028
	5142961301	Clinton(Case)\Ruth\Barnesdale	-	-	-	-	-	-	-	-	-	-	1,810,000	1,810,000	1,810,000	1,810,000	2029	2029
	5143060310	Princess/Westinghouse/Milton/Fullerton/Gibson/Earl	-	-	-	-	-	-	-	-	-	-	4,200,000	4,200,000	4,200,000	4,200,000	2030	2030
	5143061303	Caroline - Herkimer to Robinson	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2030	2030
	5143166510	GAC Replacement	-	-	-	-	-	-	-	-	-	-	600,000	600,000	600,000	600,000	2026	2032
<b>Replacement Total</b>			<b>12,449,996</b>	<b>12,157,996</b>	<b>14,605,000</b>	<b>8,595,000</b>	<b>14,905,000</b>	<b>12,917,500</b>	<b>18,725,000</b>	<b>15,462,500</b>	<b>14,670,000</b>	<b>14,670,000</b>	<b>60,995,000</b>	<b>60,995,000</b>	<b>136,349,996</b>	<b>124,797,996</b>		
Safety/ Security	5142266351	Woodward SCADA OT (Operating Technology) Security Program	-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000	2022	2022
	5142266871	Hamilton Water Capital Security Plan	-	-	1,030,000	1,030,000	1,060,000	1,060,000	1,130,000	1,130,000	790,000	790,000	530,000	530,000	4,540,000	4,540,000	2022	2031
<b>Safety/ Security Total</b>			<b>-</b>	<b>-</b>	<b>1,155,000</b>	<b>1,155,000</b>	<b>1,060,000</b>	<b>1,060,000</b>	<b>1,130,000</b>	<b>1,130,000</b>	<b>790,000</b>	<b>790,000</b>	<b>530,000</b>	<b>530,000</b>	<b>4,665,000</b>	<b>4,665,000</b>		
Staffing Costs	5142101099	Engineering Services Staffing Costs - Water	4,700,000	4,700,000	4,500,000	4,036,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,236,000	2021	2046
<b>Staffing Costs Total</b>			<b>4,700,000</b>	<b>4,700,000</b>	<b>4,500,000</b>	<b>4,036,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>27,000,000</b>	<b>27,000,000</b>	<b>49,700,000</b>	<b>49,236,000</b>		
<b>Grand Total</b>			<b>126,899,996</b>	<b>106,085,996</b>	<b>105,271,000</b>	<b>56,639,500</b>	<b>111,222,000</b>	<b>80,700,000</b>	<b>148,240,000</b>	<b>106,929,500</b>	<b>157,650,000</b>	<b>112,821,500</b>	<b>517,254,000</b>	<b>439,474,550</b>	<b>1,166,536,996</b>	<b>902,651,046</b>		



# WATER

## 2022 Capital Project Detail Sheets

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# Project Scenario Summary

## 5142171328 - Southcote - Garner to Highway 403 Bridge

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Network Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	59.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Growth			<b>Project Status</b>	Open

**Wards**  
**Description** Installation of a new watermain for system security and redundancy. The project is intended to improve domestic and fire flows and to improve quality of water delivered. This project is to be coordinated with road reconstruction.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Trunk > 450mm	100%	3,200,000	160,000	3,040,000
		3,200,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48475 - Fr DC	50,000	957,600	-	-	-	-	-	-	-	-	-	957,600
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res	30,000	562,400	-	-	-	-	-	-	-	-	-	562,400
DC_Cap												
49002 - Debenture Proceeds	-	1,520,000	-	-	-	-	-	-	-	-	-	1,520,000
49300 - CORP CONT FRM CURR TO CAP	80,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>160,000</b>	<b>3,040,000</b>	-	-	-	-	-	-	-	-	-	<b>3,040,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	3,040,000	-	-	-	-	-	-	-	-	-	3,040,000
59225 - Design Engineering Overhead	160,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	<b>160,000</b>	<b>3,040,000</b>	-	-	-	-	-	-	-	-	-	<b>3,040,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142280280 - First Road West Watermain - Bedrock to Glover Mountain

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Network Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	16.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	Extend 300mm watermain north from Bedrock to Glover Mountain Road to support residential growth in Nash neighbourhood. DC says 400mm, but 300mm has been constructed so far. Cost above is measured from Green Mountain Road not Bedrock. DC Projects SCU6-W-19				

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	830,000	-	830,000
		830,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48422 - Contributions from Developers	-	498,000	-	-	-	-	-	-	-	-	-	498,000
49004 - Debenture Proceeds Dev Chgs - RE	-	209,160	-	-	-	-	-	-	-	-	-	209,160
49005 - Debenture Proc Dev Chg Non RES	-	122,840	-	-	-	-	-	-	-	-	-	122,840
<b>Total Funding Source</b>	-	830,000	-	-	-	-	-	-	-	-	-	830,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	830,000	-	-	-	-	-	-	-	-	-	830,000
<b>Total Expenditure</b>	-	830,000	-	-	-	-	-	-	-	-	-	830,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142280281 - Dickenson Road West Watermain - Garth Street Extension to 870m easterly

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Network Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	24.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	Extend 300mm watermain westerly from terminus 870m east of future Garth Street extension to support employment growth in AEGD. 300mm watermain to be installed by developer. DC Projects MH25-W-19				

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	510,000	-	510,000
		510,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49004 - Debenture Proceeds Dev Chgs - RE	-	321,300	-	-	-	-	-	-	-	-	-	321,300
49005 - Debenture Proc Dev Chg Non RES	-	188,700	-	-	-	-	-	-	-	-	-	188,700
<b>Total Funding Source</b>	-	510,000	-	-	-	-	-	-	-	-	-	510,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	510,000	-	-	-	-	-	-	-	-	-	510,000
<b>Total Expenditure</b>	-	510,000	-	-	-	-	-	-	-	-	-	510,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5142160501 - Watermain Rehabilitation/Replacement Coordinated with Development

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Other	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** Undertake accelerated capital improvements (including lining or replacement) as identified via development applications due to degraded hydraulic capacity (blocked with tuberculation).

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	26,000,000	1,000,000	25,000,000
		26,000,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	1,000,000	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Funding Source</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,000,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
<b>Total Expenditure</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>1,000,000</b>	<b>10,000,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142299999 - Rates Projects Included in Tax Budget - NOT TO BE SET UP IN PEOPLESOFT

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Other	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	68.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The following projects are set up in the Tax Budget with funding from Rates. This detail sheet is for reference only as the budgets will be set up in the road project with rates funding transferred through the current budget.

- 4032158001 - Consultation and Accommodation
- 4032114405 - Contaminated Soil & Rock Disposal Program
- 4032255222 - Corridor Infrastructure Condition and Programming
- 4031957944 - PW Asset Management (PW-AM) System Implementation - CASH FLOW

**Comments**

**Expenditure By Asset Component**

No data found for the selected parameters.

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	2,320,000	-	-	-	-	-	-	-	-	-	2,320,000
<b>Total Funding Source</b>	-	<b>2,320,000</b>	-	-	-	-	-	-	-	-	-	<b>2,320,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59271 - Other Capital Expenditures	-	2,320,000	2,120,000	1,410,000	360,000	1,110,000	360,000	1,110,000	360,000	1,110,000	360,000	10,620,000
<b>Total Expenditure</b>	-	<b>2,320,000</b>	<b>2,120,000</b>	<b>1,410,000</b>	<b>360,000</b>	<b>1,110,000</b>	<b>360,000</b>	<b>1,110,000</b>	<b>360,000</b>	<b>1,110,000</b>	<b>360,000</b>	<b>10,620,000</b>
<b>Percent Increase</b>			(8.62%)	(33.49%)	(74.47%)	208.33%	(67.57%)	208.33%	(67.57%)	208.33%	(67.57%)	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5142171303 - Marion - Longwood to Dromore

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Replacement of the existing cast iron watermain which is hydraulically deficient and corroded internally and a portion of which will be upgraded in size. This project is to be coordinated with road reconstruction and sewer replacement. CPMS 11403

**Comments** Replace aging 150mm CI watermain along Marion Ave from Dromore to Longwood, while upsizing portion between Haddon and Cline to a 300mm. The project is intended to improve domestic and fire flows, enhance operational flexibility and to improve quality of water delivered while replacing undersized lead services.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	490,000	50,000	440,000
		490,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	50,000	440,000	-	-	-	-	-	-	-	-	-	440,000
<b>Total Funding Source</b>	<b>50,000</b>	<b>440,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>440,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	440,000	-	-	-	-	-	-	-	-	-	440,000
59225 - Design Engineering Overhead	50,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	<b>50,000</b>	<b>440,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>440,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5142271305 - Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Replacement of the existing cast iron watermain which is hydraulically deficient and corroded internally. The project is intended to improve domestic and fire flows and to improve quality of water delivered while replacing undersized lead services. Replacement of existing watermain along with all associated hydrants, valves, and substandard services. This project is to be coordinated with sewer replacement and road reconstruction. CPMS 11339

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	1,000,000	-	1,000,000
		1,000,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Funding Source</b>	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Expenditure</b>	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5142271312 - Strathearne - Main to Britannia

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Due to recorded failures and predicted high probability for increased failure rates in the near future, the existing watermain has become structurally deficient and requires replacement. Replacement of existing watermain along with all associated hydrants, valves, and substandard services. This is intended to reduce overall service outages. This project is to be coordinated with road reconstruction. CPMS 11489

**Comments**  
**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	900,000	-	900,000
		900,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	900,000	-	-	-	-	-	-	-	-	-	900,000
<b>Total Funding Source</b>	-	900,000	-	-	-	-	-	-	-	-	-	900,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	840,000	-	-	-	-	-	-	-	-	-	840,000
59225 - Design Engineering Overhead	-	60,000	-	-	-	-	-	-	-	-	-	60,000
<b>Total Expenditure</b>	-	900,000	-	-	-	-	-	-	-	-	-	900,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5142271306 - Kelvin - Old Orchard to south end

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Due to recorded failures and predicted high probability for increased failure rates in the near future, the existing watermain has become structurally deficient and requires replacement. This is intended to reduce overall service outages. Replacement of deficient watermain along with all appurtenances, valves, hydrants and all sub-standard services. This project is to be coordinated with road reconstruction and sanitary sewer upgrades. CPMS 11501

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	100,000	-	100,000
		100,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Total Funding Source</b>	-	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	80,000	-	-	-	-	-	-	-	-	-	80,000
59225 - Design Engineering Overhead	-	20,000	-	-	-	-	-	-	-	-	-	20,000
<b>Total Expenditure</b>	-	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142271308 - Concession / Mountain Brow - Upper Gage to Oakcrest

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing watermain was found to be high risk due to recent breaks. The project is intended to improve fire flows and the quality of water as well as replacement of all associated hydrants, valves and substandard services to an industrial area. This project is to be coordinated with road reconstruction. CPMS 11271

**Comments** Replace existing 150mm WM with new 150mm WM including the removal and replacement of all substandard services.

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	2,200,000	-	2,200,000
		2,200,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	2,200,000	-	-	-	-	-	-	-	-	-	2,200,000
<b>Total Funding Source</b>	-	2,200,000	-	-	-	-	-	-	-	-	-	2,200,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	2,200,000	-	-	-	-	-	-	-	-	-	2,200,000
<b>Total Expenditure</b>	-	2,200,000	-	-	-	-	-	-	-	-	-	2,200,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5142271296 - Governor's – Main to Ogilvie (Bridge 296)

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	79.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing watermain was found to be deficient in capacity and requires a size upgrade. The project is intended to increase operational redundancy, improve fire flows and the quality of water as well as replacement of all associated hydrants, valves and substandard services. This project is to be coordinated with road reconstruction and bridge rehabilitation.

**Comments** Replacement and upgrade of existing 100 and 150 mm watermains with 300mm from tee (DM10T121) and extend westerly to connect to 400mm valve (DM10V200) at Ogilvie (approx. 250m) to improve neighbourhood performance and operational redundancy.

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	400,000	-	400,000
		400,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	400,000	-	-	-	-	-	-	-	-	-	400,000
<b>Total Funding Source</b>	-	400,000	-	-	-	-	-	-	-	-	-	400,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	40,000	-	-	-	-	-	-	-	-	-	40,000
59212 - Construction	-	360,000	-	-	-	-	-	-	-	-	-	360,000
<b>Total Expenditure</b>	-	400,000	-	-	-	-	-	-	-	-	-	400,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.



# Project Scenario Summary

5142271022 - Burlington - James to Ferguson

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	54.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing watermain were found to be deficient and require upgrade. The project is intended to improve fire flows and the quality of water as well as replacement of all associated hydrants, valves and substandard services to an industrial area. Project to be coordinated with Road works.

**Comments** Replace existing 150mm watermain from James St N (HA21C008 Cross) to Ferguson (HA20V104 Valve) with 200mm including all undersized and/or non-standard material services. Provide for future 200mm connection southerly at the Burlington/Hughson intersection.

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	1,200,000	-	1,200,000
		1,200,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	1,200,000	-	-	-	-	-	-	-	-	-	1,200,000
<b>Total Funding Source</b>	-	1,200,000	-	-	-	-	-	-	-	-	-	1,200,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,200,000	-	-	-	-	-	-	-	-	-	1,200,000
<b>Total Expenditure</b>	-	1,200,000	-	-	-	-	-	-	-	-	-	1,200,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

5142271214 - Fairfield - Barton to Britannia

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Due to recorded failures and predicted high probability for increased failure rates in the near future, the existing watermain has become structurally deficient and requires replacement. This is intended to reduce overall service outages. This project is to be coordinated with road reconstruction. CPMS 10727

**Comments** Replace existing 150mm watermain at Barton St (HB33T015) to Britannia Ave (HB32C003). Replace all appurtenances including valves, hydrants, and all sub-standard services.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	500,000	-	500,000
		500,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Expenditure</b>	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142271325 - CCBF - Corktown Neighbourhood

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	63.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** CCBF- Due to recorded failures and predicted high probability for increased failure rates in the near future, the existing watermain has become structurally deficient and requires replacement. This is intended to increase operational continuity of the system.

**Comments** John St S - Extending existing 200mm watermain (HA15S001) 50m southerly to the existing 150mm on Louisa Ave. Louisa Ave - Replace existing 150mm with new 150mm (HA15T003 to HA15S016) Rockwood Place - Replace existing 150mm with new 150mm (HA15T004 to HA15V104) Rockwood Place - Replace existing 150mm with new 150mm (HA15V006 to HA15E006) Replace all appurtenances including valves, hydrants, and all sub-standard services.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	400,000	-	400,000
		400,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	400,000	-	-	-	-	-	-	-	-	-	400,000
<b>Total Funding Source</b>	-	400,000	-	-	-	-	-	-	-	-	-	400,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	400,000	-	-	-	-	-	-	-	-	-	400,000
<b>Total Expenditure</b>	-	400,000	-	-	-	-	-	-	-	-	-	400,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5142170000 - Rates Share of Road Reconstruction - NOT TO BE SET UP IN PEOPLESOFT

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated Replacement (50/50)	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	59.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	In accordance with the coordinated infrastructure cost-sharing policy, to reimburse the roads program for the reconstruction of roads being a direct result of coordinated watermain and/or sewer replacement works. This detail sheet is for reference only as the budget will be set up in the roads projects with funding transferred through the current budget.				
<b>Comments</b>					

4032711021 - Industrial - Ottawa to Gage / Gage / Depew  
4032311121 - Highland Rd W - First Rd W to Upper Centennial  
4032619115 - Westdale North Neighbourhood Phase 2  
4032719113 - Westdale North Neighbourhood Phase 3  
4032019103 - Marion - Longwood to Dromore  
4032019105 - Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)  
4032019108 - Scenic - Chateau Crt to Upper Paradise  
4032119104 - Hatt & Bond - King to Market  
4032571109 - Gray - King to Hwy 8  
4032219196 - Governor's - Main to Ogilvie (Bridge 296)  
4032319103 - Burlington & Industrial - Birch to Gage  
4032519106 - Wentworth - Barton to Burlington  
4032611023 - Fennell - Upper James to Upper Wellington  
4032611024 - Osler - South St to West Park  
4032119106 - Kelvin - Old Orchard to south end  
4032119112 - Strathearne - Main to Britannia  
4032119105 - Barton - Ottawa to Kenilworth  
4032119108 - Concession / Mountain Brow - Upper Gage to Oakcrest  
4032119122 - Barton - Sherman to Ottawa  
4032119115 - Strathearne - Brampton to gate at north end  
4032119114 - Pinelands / Teal / Garden / Community / Greensfield  
4032219107 - Duke - Hess to west end & Robinson - Queen to west end  
4032319105 - Upper James - Mohawk to Fennell  
4032419104 - Ferguson/Foster/Walnut/Patrick  
4032419105 - Dundurn - CPR bridge (s/o Main St) to King  
4032419107 - Hatt - Market to east end & York / Kerr  
4032419109 - Wilson - Wentworth to Sherman (LRT Enabling)  
4032419114 - Brampton - Parkdale to Woodward & Brighton  
4032819103 - Hughson - Wilson to Barton  
4032719116 - Sanford - Main to Cannon  
4032519112 - Aberdeen - Queen to Studholme  
4032719110 - Upper Wellington - Bryna to Mohawk  
4032719020 - Sanford - Cannon to Barton  
4032819129 - Nash - Barton to 350 metres north of Bancroft  
4032719117 - Green - Carla to Barton  
4032719103 - Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona Neighbourhood)  
4032719111 - Jones / Oxford / Tecumseh (Strathcona Neighbourhood)  
4032819108 - Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore  
4032619108 - Burlington & Industrial - Ottawa to Kenilworth  
4032719105 - Carling / Macklin St S / Olmstead / Tope (Westdale South)  
4032619112 - Cairns / East St N / Spencer / (Hunter Neighbourhood)  
4032719114 - Charlton - James to Walnut  
4032619109 - Southcote - Hwy 403 bridge to Oldoakes /Dorval  
4032619104 - Birge - Emerald to Cheever  
4032819104 - Evans - Wellington to East  
4032519114 - Westdale North Neighbourhood Phase 1  
4032619107 - Barton St BIA - Ferguson to Wentworth  
4032519115 - Barton St BIA - Wentworth to Sherman  
4032619111 - Oak/Emerald/East Ave - Cannon to Barton - Cannon to Barton  
4032619118 - Charlton - Walnut to Sherman Access  
4032870000 - Rates Share of Road Restoration - Coordinated Projects  
4032319122 - Leckie Ave - Byron to Highland  
4032419108 - Rymal - Glancaster to Upper Paradise

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Urban Arterial Roads - Major	100%	141,440,000	-	141,440,000
		141,440,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	4,130,000	-	-	-	-	-	-	-	-	-	4,130,000
<b>Total Funding Source</b>	-	4,130,000	-	-	-	-	-	-	-	-	-	4,130,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
58002 - Tfr To Capital Frm Current	-	4,130,000	3,790,000	4,930,000	4,690,000	6,570,000	9,830,000	10,000,000	10,000,000	10,000,000	10,000,000	73,940,000
59212 - Construction	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	-	4,130,000	3,790,000	4,930,000	4,690,000	6,570,000	9,830,000	10,000,000	10,000,000	10,000,000	10,000,000	73,940,000
<b>Percent Increase</b>			(8.23%)	30.08%	(4.87%)	40.09%	49.62%	1.73%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5142067420 - St. Joseph's Tank Pulsation Dampener (HD002STK)

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Demolition / Disposal	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	6.0
<b>Start Date</b>	2020-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2020
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**  
**Description**      Decommissioning of the St. Joseph's Tank Pulsation Dampener (HD002STK).  
**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Surge Tanks	100%	610,000	170,000	440,000
		610,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	170,000	440,000	-	-	-	-	-	-	-	-	-	440,000
<b>Total Funding Source</b>	<b>170,000</b>	<b>440,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>440,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	400,000	-	-	-	-	-	-	-	-	-	400,000
59225 - Design Engineering Overhead	150,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	20,000	40,000	-	-	-	-	-	-	-	-	-	40,000
<b>Total Expenditure</b>	<b>170,000</b>	<b>440,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>440,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142166608 - Lynden Water System - Phase 2 Treatment

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Enhancement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	19.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**  
**Description** Refurbishment of FDL01 well casing and ancillary electrical connections have been identified to prolong its useful life.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wells (communal systems)	100%	720,000	610,000	110,000
		720,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	610,000	110,000	-	-	-	-	-	-	-	-	-	110,000
<b>Total Funding Source</b>	<b>610,000</b>	<b>110,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>110,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	400,000	-	-	-	-	-	-	-	-	-	-	-
59225 - Design Engineering Overhead	150,000	100,000	-	-	-	-	-	-	-	-	-	100,000
59809 - Cap-Cur_Recovery_Oper Budget	60,000	10,000	-	-	-	-	-	-	-	-	-	10,000
<b>Total Expenditure</b>	<b>610,000</b>	<b>110,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>110,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.



# Project Scenario Summary

## 5141996951 - Binbrook Feedermain via Fletcher (W-30)

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Expansion / Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	48.0
<b>Start Date</b>	2019-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2019
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Supply water to Binbrook to support growth as per Citywide Water/Wastewater Master Plan.  
**Comments** 6,950m of 400mm trunk watermain on Fletcher from Blue Mountain to Cemetery and on Cemetery from Fletcher to RR56 and on RR56 from Cemetery to HD019 PS (DC Study Project ID # B7-W-14).

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	6,980,000	4,450,000	2,530,000
		6,980,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48475 - Fr DC	382,000	-	-	-	-	-	-	-	-	-	-	-
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res	198,000	-	-	-	-	-	-	-	-	-	-	-
DC_Cap												
49004 - Debenture Proceeds Dev	2,438,000	1,593,900	-	-	-	-	-	-	-	-	-	1,593,900
Chgs - RE												
49005 - Debenture Proc Dev Chg	1,432,000	936,100	-	-	-	-	-	-	-	-	-	936,100
Non RES												
<b>Total Funding Source</b>	<b>4,450,000</b>	<b>2,530,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,530,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	3,520,000	2,300,000	-	-	-	-	-	-	-	-	-	2,300,000
59225 - Design Engineering	530,000	-	-	-	-	-	-	-	-	-	-	-
Overhead												
59809 - Cap-Cur_Recovery_Oper	400,000	230,000	-	-	-	-	-	-	-	-	-	230,000
Budget												
<b>Total Expenditure</b>	<b>4,450,000</b>	<b>2,530,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,530,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5142260280 - Upper Centennial Watermain Extension

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Expansion / Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	45.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	Subject to the completion of the PD7 Boundary Adjustment Study - construct a new 300 mm WM from the existing 200mm on Mud (Unit ID1: SE05V002; Unit ID2: SE05T001 Compkey: 214062), southerly to the future Loromont Extension.				

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Trunk > 450mm	100%	500,000	-	500,000
		500,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Expenditure</b>	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5141855777 - Water infrastructure Analysis - Growth and Economic Opportunities

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	61.0
<b>Start Date</b>	2018-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2018
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**

**Description** To undertake engineering analysis related to new infrastructure within growth areas or with economic opportunities and its impact on existing systems both upstream and downstream. This project will ensure the City's pipe capacities are met for current and future conditions.

**Comments** Udo Ehrenberg 2021/07/21 - "mini master plans utilization"

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	1,250,000	920,000	330,000
		1,250,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49214 - Third Party Billings	400,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	520,000	330,000	-	-	-	-	-	-	-	-	-	330,000
<b>Total Funding Source</b>	<b>920,000</b>	<b>330,000</b>	-	-	-	-	-	-	-	-	-	<b>330,000</b>
<b>Percent Increase</b>		(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	600,000	300,000	-	-	-	-	-	-	-	-	-	300,000
59809 - Cap-Cur_Recovery_Oper Budget	320,000	30,000	-	-	-	-	-	-	-	-	-	30,000
<b>Total Expenditure</b>	<b>920,000</b>	<b>330,000</b>	-	-	-	-	-	-	-	-	-	<b>330,000</b>
<b>Percent Increase</b>		(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142096520 - Garner Road Trunk Watermain - Southcote to Wilson (W-09)

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	50.0
<b>Start Date</b>	2020-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	2020
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	To provide additional distribution capacity to service new development in Ancaster and AEGD as per Citywide Water/Wastewater Master Plan. 500/600mm watermain (DC Study Project ID # A1-W-19, A16-W-19 & A17-W-19).				
<b>Comments</b>					

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Water Main Trunk &gt; 450mm</b>	<b>100%</b>	<b>16,940,000</b>	<b>3,390,000</b>	<b>13,550,000</b>
		<b>16,940,000</b>		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49004 - Debenture Proceeds Dev Chgs - RE	2,135,000	8,536,500	-	-	-	-	-	-	-	-	-	8,536,500
49005 - Debenture Proc Dev Chg Non RES	1,255,000	5,013,500	-	-	-	-	-	-	-	-	-	5,013,500
<b>Total Funding Source</b>	<b>3,390,000</b>	<b>13,550,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13,550,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	13,550,000	-	-	-	-	-	-	-	-	-	13,550,000
59225 - Design Engineering Overhead	3,390,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	<b>3,390,000</b>	<b>13,550,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13,550,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5142155010 - Water Systems Planning Program

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	61.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2040-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**

**Description** Master Plans, Servicing Studies, Source Water Protection and Environmental Assessments. On an as-required basis along GRIDS-identified Nodes and Corridors, and using City data/models, analyse water system servicing capability (local street and district-wide) for individual intensification development proposals and recommend upgrades required to accommodate. Undertake conceptual design for Master Plan projects. Service planning for new subdivisions, intensification areas and system performance. Includes field data systems. Evaluation of level of service and related infrastructure improvements including non-standard operational scenarios (shutdown routes, temporary offline conditions, forensic analysis).

**Comments** add \$100k to each year going forward to account for extra work to support WD/PO operations as well as Engineering Services related shutdowns and interim operating conditions which is increasing over past years.

add \$100k for CPMS Scope development services which varies from year to year. (added 6 July 2021)

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	6,270,000	-	6,270,000
		6,270,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Total Funding Source</b>	-	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	470,000	470,000	470,000	470,000	470,000	470,000	470,000	470,000	470,000	470,000	4,700,000
59809 - Cap-Cur_Recovery_Oper Budget	-	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	1,300,000
<b>Total Expenditure</b>	-	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	6,000,000
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142155022 - Engineering Consultant Watermain Projects

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	52.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** Various subsurface infrastructure condition assessment and trenchless rehabilitation engineering consulting services. Work includes but not limited to; Design of various infrastructure renewal and rehabilitation applications, technology and industry reviews of assessment and rehabilitation technologies, project management of sub-surface projects, and development and application of technical review and audit of QA/QC procedures.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	10,300,000	300,000	10,000,000
		10,300,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	300,000	400,000	-	-	-	-	-	-	-	-	-	400,000
<b>Total Funding Source</b>	<b>300,000</b>	<b>400,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>400,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	300,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	4,000,000
<b>Total Expenditure</b>	<b>300,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>4,000,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142155247 - Alterations to the Drinking Water System

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**

**Description** Review and Approvals of Form 1 are necessary to meet the requirements of the City’s Drinking Water System-DWS License and Permit and related Drinking Water Quality Management System-DWQMS Procedures. Alterations to the City’s DWS require comprehensive documentation to satisfy Ministry Standards and Guidelines as well as City design and operational requirements. This also ensures the level of service of the DWS to customers meets the City’s standards at the time of alteration and to future full buildout conditions. Timely approvals of Form 1 facilitate the City’s Open for Business objective.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	3,900,000	150,000	3,750,000
		3,900,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	150,000	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Funding Source</b>	<b>150,000</b>	<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,500,000
<b>Total Expenditure</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>1,500,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142155556 - Mapping Update Program

<b>Project Manager</b>	David Lamont	<b>Section</b>	Geomatics and Corridor Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	41.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Acquire updated air photos, update the City's Digital Terrain Model (DEM) and mapping of road edges, sidewalks, building footprints etc. This supports the study of Storm water issues, supports operating and capital programs, assists in land development reviews. Develop and Maintain Horizontal ( Lat / Long) and Vertical (Elevation) control networks across the City to allow correct data integration and alignment of ground based surveys with the City's mapping program.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	1,115,000	115,000	1,000,000
		1,115,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	40,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	75,000	40,000	-	-	-	-	-	-	-	-	-	40,000
<b>Total Funding Source</b>	<b>115,000</b>	<b>40,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>40,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	115,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	400,000
<b>Total Expenditure</b>	<b>115,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>400,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5142157545 - Water - Computer Model

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Provision of computer modeling services for the City's drinking water system related to non-standard operations, capital upgrade verification and design assessments of ad-hoc growth scenarios. Includes services related to maintenance of the City's water computer model.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	7,040,000	170,000	6,870,000
		7,040,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	170,000	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Funding Source</b>	<b>170,000</b>	<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	150,000	120,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,370,000
59809 - Cap-Cur_Recovery_Oper Budget	20,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	300,000
<b>Total Expenditure</b>	<b>170,000</b>	<b>150,000</b>	<b>280,000</b>	<b>280,000</b>	<b>280,000</b>	<b>280,000</b>	<b>280,000</b>	<b>280,000</b>	<b>280,000</b>	<b>280,000</b>	<b>280,000</b>	<b>2,670,000</b>
<b>Percent Increase</b>			86.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142257000 - Vertical Asset Management Program

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	51.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2022
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	Software license purchases and technical support necessary for the development of a vertical asset management program for the City of Hamilton Water, Wastewater and Stormwater facilities.				

**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	560,000	280,000	280,000
		560,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	280,000	280,000	-	-	-	-	-	-	-	-	-	280,000
<b>Total Funding Source</b>	<b>280,000</b>	<b>280,000</b>	-	-	-	-	-	-	-	-	-	<b>280,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	250,000	250,000	-	-	-	-	-	-	-	-	-	250,000
59809 - Cap-Cur_Recovery_Oper Budget	30,000	30,000	-	-	-	-	-	-	-	-	-	30,000
<b>Total Expenditure</b>	<b>280,000</b>	<b>280,000</b>	-	-	-	-	-	-	-	-	-	<b>280,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5142255264 - City-Wide Water Master Plan

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	61.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2028-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Water Systems Master Planning study to determine system needs for growth and performance. Coordinated with GRIDS 3.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	830,000	-	830,000
		830,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48475 - Fr DC	-	176,400	-	-	-	-	-	346,500	-	-	-	522,900
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res DC_Cap	-	103,600	-	-	-	-	-	203,500	-	-	-	307,100
<b>Total Funding Source</b>	-	280,000	-	-	-	-	-	550,000	-	-	-	830,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	100.00%	(100.00%)	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	250,000	-	-	-	-	-	500,000	-	-	-	750,000
59809 - Cap-Cur_Recovery_Oper Budget	-	30,000	-	-	-	-	-	50,000	-	-	-	80,000
<b>Total Expenditure</b>	-	280,000	-	-	-	-	-	550,000	-	-	-	830,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	100.00%	(100.00%)	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5142255280 - Airport Employment Growth District (AEGD) Water, Wastewater and Stormwater Master Plan Update

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	36.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Update the existing Master Plans, based on AEGD Transportation Master Plan (TMP) Update and City Wide W/ WW and SMW TMP Update/GRIDS II, fulfilling Municipal Class EA process (Phases 1 and 2 Master Plan). Assess changes based on AEGD TMP Update and City Wide W/WW and SWM Master Plan and GRIDS II. Follow the Municipal Class Environmental Assessment Process, fulfilling Phases 1 & 2 of Master Plan process.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	700,000	-	700,000
		700,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49004 - Debenture Proceeds Dev Chgs - RE	-	441,000	-	-	-	-	-	-	-	-	-	441,000
49005 - Debenture Proc Dev Chg Non RES	-	259,000	-	-	-	-	-	-	-	-	-	259,000
<b>Total Funding Source</b>	-	700,000	-	-	-	-	-	-	-	-	-	700,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	700,000	-	-	-	-	-	-	-	-	-	700,000
<b>Total Expenditure</b>	-	700,000	-	-	-	-	-	-	-	-	-	700,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142251112 - Inventory Bar Coding System, Equipment & Consulting

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	8.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** To acquire and install a bar coding system for Hamilton Water.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	200,000	-	200,000
		200,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	200,000	-	-	-	-	-	-	-	-	-	200,000
<b>Total Funding Source</b>	-	200,000	-	-	-	-	-	-	-	-	-	200,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
53415 - Equipment	-	50,000	-	-	-	-	-	-	-	-	-	50,000
55801 - Consulting Services	-	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Expenditure</b>	-	200,000	-	-	-	-	-	-	-	-	-	200,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5142257800 - Water Facility Asset Management Implementation Plan

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	53.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2024-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** To support the various elements of the Water Facility Asset Management program, external resources are required to deliver the 4-year implementation plan that commenced in 2021. The areas of external resourcing include support of the following initiatives: Risk Management Strategies, Lifecycle Solutions & Priorities, Costing Framework, Communication and Engagement. Review scope of work with Stakeholders; developed Terms of Reference (TOR) for a consultant(s) to assist with the implementation of the various elements of the Water Facility Asset Management Plan.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	490,000	-	490,000
		490,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Total Funding Source</b>	-	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	90,000	250,000	100,000	-	-	-	-	-	-	-	440,000
59809 - Cap-Cur_Recovery_Oper Budget	-	10,000	30,000	10,000	-	-	-	-	-	-	-	50,000
<b>Total Expenditure</b>	-	100,000	280,000	110,000	-	-	-	-	-	-	-	490,000
<b>Percent Increase</b>			180.00%	(60.71%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142255851 - Water Efficiency Plan/Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	0.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2041-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** To support Hamilton Water in the development of water efficiency programs or projects and related outreach materials to educate City of Hamilton residents and businesses. This includes supporting a wide variety of conservation and educational activities related to drinking water, wastewater and storm water.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	1,277,000	-	1,277,000
		1,277,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	115,000	-	-	-	-	-	-	-	-	-	115,000
<b>Total Funding Source</b>	-	115,000	-	-	-	-	-	-	-	-	-	115,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59271 - Other Capital Expenditures	-	115,000	117,000	120,000	122,000	124,000	129,000	132,000	136,000	139,000	143,000	1,277,000
<b>Total Expenditure</b>	-	115,000	117,000	120,000	122,000	124,000	129,000	132,000	136,000	139,000	143,000	1,277,000
<b>Percent Increase</b>			1.74%	2.56%	1.67%	1.64%	4.03%	2.33%	3.03%	2.21%	2.88%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142267510 - Water System Studies & Continual Improvement Initiatives

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Operations (Water) - Hamilton Water Operations	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	24.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** To retain professional engineering services to undertake a PCN Review, Global Chlorination Study, Lockout / Tagout Program Refresher, Development of a Facilities Compliance Program, Water Asset Age Assessment, Watermain Flushing Program for the Lynden Distribution System, proceed with Maintenance Strategic Plan recommendations and Capital Delivery Program Initiatives.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	1,100,000	-	1,100,000
		1,100,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	1,100,000	-	-	-	-	-	-	-	-	-	1,100,000
<b>Total Funding Source</b>	-	1,100,000	-	-	-	-	-	-	-	-	-	1,100,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	1,100,000	-	-	-	-	-	-	-	-	-	1,100,000
<b>Total Expenditure</b>	-	1,100,000	-	-	-	-	-	-	-	-	-	1,100,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5142162073 - Field Data Systems Program

<b>Project Manager</b>	David Lamont	<b>Section</b>	Geomatics and Corridor Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Licenses	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	31.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**  
**Description** To maintain, upgrade and acquire data and information for various infrastructure management systems involved with the overall management of the stormwater collection network. (IPS; IRISS; ESRI, ProjectWise Connect, Scene Software – LiDAR and Bentley Suite Software)

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Computer Software	100%	2,960,000	110,000	2,850,000
		2,960,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	100,000	-	-	-	-	-	-	-	-	-	100,000
49300 - CORP CONT FRM CURR TO CAP	110,000	110,000	-	-	-	-	-	-	-	-	-	110,000
<b>Total Funding Source</b>	<b>110,000</b>	<b>210,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>210,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59271 - Other Capital Expenditures	110,000	210,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	1,200,000
<b>Total Expenditure</b>	<b>110,000</b>	<b>210,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>1,200,000</b>
<b>Percent Increase</b>			(47.62%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5141495551 - PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	New	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	51.0
<b>Start Date</b>	2014-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	2014
<b>Investment Type</b>	Growth			<b>Project Status</b>	Open

**Wards**  
**Description** To provide emergency and balancing storage for new growth area in Pressure District 7 as per Citywide Water/Wastewater Master Plan. 9.9 ML of storage south of Highland Road and east of Nebo Rd. (DC Study Project ID # HM28-W-14) to service growth are in Elfrida area.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Storage (Reservoirs and Towers)</b>	<b>100%</b>	<b>13,600,000</b>	<b>2,600,000</b>	<b>11,000,000</b>
		<b>13,600,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48475 - Fr DC	1,672,000	-	-	-	-	-	-	-	-	-	-	-
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res	928,000	-	-	-	-	-	-	-	-	-	-	-
DC_Cap												
49004 - Debenture Proceeds Dev	-	3,465,000	3,465,000	-	-	-	-	-	-	-	-	6,930,000
Chgs - RE												
49005 - Debenture Proc Dev Chg	-	2,035,000	2,035,000	-	-	-	-	-	-	-	-	4,070,000
Non RES												
<b>Total Funding Source</b>	<b>2,600,000</b>	<b>5,500,000</b>	<b>5,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11,000,000</b>
<b>Percent Increase</b>			<b>0.00%</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	
<b>Expenditure</b>												
55801 - Consulting Services	100,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	-	5,250,000	5,250,000	-	-	-	-	-	-	-	-	10,500,000
59225 - Design Engineering	1,500,000	-	-	-	-	-	-	-	-	-	-	-
Overhead												
59259 - Land/Property Aquisition	750,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper	250,000	250,000	250,000	-	-	-	-	-	-	-	-	500,000
Budget												
<b>Total Expenditure</b>	<b>2,600,000</b>	<b>5,500,000</b>	<b>5,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11,000,000</b>
<b>Percent Increase</b>			<b>0.00%</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5141767650 - New Greenville Communal Well

<b>Project Manager</b>	Cari Vanderperk	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	New	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	52.0
<b>Start Date</b>	2017-01-01	<b>Completion Date</b>	2025-12-31	<b>Year Approved</b>	2017
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

### Wards

**Description** New production well and treatment system. Design and Construct an additional groundwater well house within the Greenville Communal system.

### Comments

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wells (communal systems)	100%	8,870,000	1,570,000	7,300,000
		8,870,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	150,000	150,000	3,500,000	3,500,000	-	-	-	-	-	-	7,300,000
49300 - CORP CONT FRM CURR TO CAP	1,570,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>1,570,000</b>	<b>150,000</b>	<b>150,000</b>	<b>3,500,000</b>	<b>3,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,300,000</b>
<b>Percent Increase</b>			0.00%	2,233.33%	0.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	-	-	3,500,000	3,500,000	-	-	-	-	-	-	7,000,000
59225 - Design Engineering Overhead	1,150,000	-	-	-	-	-	-	-	-	-	-	-
59259 - Land/Property Aquisition	100,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	320,000	150,000	150,000	-	-	-	-	-	-	-	-	300,000
<b>Total Expenditure</b>	<b>1,570,000</b>	<b>150,000</b>	<b>150,000</b>	<b>3,500,000</b>	<b>3,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,300,000</b>
<b>Percent Increase</b>			0.00%	2,233.33%	0.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5141895852 - Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)

<b>Project Manager</b>	Cari Vanderperk	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	New	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	48.0
<b>Start Date</b>	2018-01-01	<b>Completion Date</b>	2024-12-31	<b>Year Approved</b>	2018
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**

**Description** Carlisle water storage facility (minimum of 1400 m3 of elevated or inground storage) and water conservation program. Tender for construction will be awarded in full and the expenditures are projected on a cash flow basis to accommodate the recommended financing strategy.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wells (communal systems)	100%	7,930,000	880,000	7,050,000
		7,930,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	900,000	-	-	-	-	-	-	-	-	-	900,000
49300 - CORP CONT FRM CURR TO CAP	880,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>880,000</b>	<b>900,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>900,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	400,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	-	-	-	6,000,000	-	-	-	-	-	-	-	6,000,000
59225 - Design Engineering Overhead	400,000	-	-	-	-	-	-	-	-	-	-	-
59259 - Land/Property Aquisition	-	750,000	-	-	-	-	-	-	-	-	-	750,000
59809 - Cap-Cur_Recovery_Oper Budget	80,000	150,000	-	150,000	-	-	-	-	-	-	-	300,000
<b>Total Expenditure</b>	<b>880,000</b>	<b>900,000</b>	<b>-</b>	<b>6,150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,050,000</b>
<b>Percent Increase</b>			(100.00%)	100.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142161502 - Water Meter - Installation/Replacement/Repair - General Maintenance

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	New	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	62.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** For the purchase and installation of water meters and equipment for all new construction; as well as the replacement and maintenance of existing water meters and equipment.  
**Comments**

**Expenditure By Asset Component**

<b>Asset Components</b>	<b>Share</b>	<b>Total Budget</b>	<b>Previously Approved</b>	<b>Forecast Budget</b>
Residential meters	100%	113,550,000	3,400,000	110,150,000
		113,550,000		

**Project Forecast**

<b>GL Account</b>	<b>Pre 2022</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>Total</b>
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	2,760,000	3,630,000	-	-	-	-	-	-	-	-	-	3,630,000
49412 - Contrib From Rsve	640,000	640,000	640,000	640,000	640,000	640,000	640,000	640,000	640,000	640,000	640,000	6,400,000
<b>Total Funding Source</b>	<b>3,400,000</b>	<b>4,270,000</b>	<b>640,000</b>	<b>640,000</b>	<b>640,000</b>	<b>640,000</b>	<b>640,000</b>	<b>640,000</b>	<b>640,000</b>	<b>640,000</b>	<b>640,000</b>	<b>10,030,000</b>
<b>Percent Increase</b>			(85.01%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	3,400,000	4,270,000	4,360,000	4,450,000	3,550,000	3,620,000	3,690,000	3,770,000	3,850,000	3,930,000	4,010,000	39,500,000
<b>Total Expenditure</b>	<b>3,400,000</b>	<b>4,270,000</b>	<b>4,360,000</b>	<b>4,450,000</b>	<b>3,550,000</b>	<b>3,620,000</b>	<b>3,690,000</b>	<b>3,770,000</b>	<b>3,850,000</b>	<b>3,930,000</b>	<b>4,010,000</b>	<b>39,500,000</b>
<b>Percent Increase</b>			2.11%	2.06%	(20.22%)	1.97%	1.93%	2.17%	2.12%	2.08%	2.04%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142151110 - Fleet Additions

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	New	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	15.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** To acquire and upgrade vehicles and equipment for Hamilton Water.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Central Fleet - Medium Trucks	100%	5,582,000	1,160,000	4,422,000
		5,582,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	1,162,000	-	-	-	-	-	-	-	-	-	1,162,000
49300 - CORP CONT FRM CURR TO CAP	1,160,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>1,160,000</b>	<b>1,162,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,162,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59294 - Vehicles	1,160,000	1,162,000	460,000	120,000	130,000	550,000	100,000	100,000	100,000	100,000	100,000	2,922,000
<b>Total Expenditure</b>	<b>1,160,000</b>	<b>1,162,000</b>	<b>460,000</b>	<b>120,000</b>	<b>130,000</b>	<b>550,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>2,922,000</b>
<b>Percent Increase</b>			(60.41%)	(73.91%)	8.33%	323.08%	(81.82%)	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5142167840 - PD9 & PD10 East Stoney Creek Booster Pumping Station

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	New	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	32.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**

**Description** Construction of a new booster pumping station at Highway 8 and Fifty Road is the preferred location for water supply and servicing of Pressure District 9 (PD9) and PD10 located in East Stoney Creek. The new pumping station will be connected to Hamilton's drinking water distribution system and thus PD9 and PD10 will no longer require supply from the single-feed connection to the Town of Grimsby water system.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Pumping Stations - Water</b>	<b>100%</b>	<b>4,420,000</b>	<b>720,000</b>	<b>3,700,000</b>
		<b>4,420,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	550,000	3,150,000	-	-	-	-	-	-	-	-	3,700,000
49300 - CORP CONT FRM CURR TO CAP	720,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>720,000</b>	<b>550,000</b>	<b>3,150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,700,000</b>
<b>Percent Increase</b>			<b>472.73%</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	
<b>Expenditure</b>												
59212 - Construction	-	-	3,000,000	-	-	-	-	-	-	-	-	3,000,000
59225 - Design Engineering Overhead	400,000	500,000	-	-	-	-	-	-	-	-	-	500,000
59259 - Land/Property Aquisition	250,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	70,000	50,000	150,000	-	-	-	-	-	-	-	-	200,000
<b>Total Expenditure</b>	<b>720,000</b>	<b>550,000</b>	<b>3,150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,700,000</b>
<b>Percent Increase</b>			<b>472.73%</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142467224 - New PD2 Water Pumping Station (CASH FLOWED)

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	New	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	22.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2026-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** To build a new pumping station for Pressure District 2 for security of supply. Tender for construction will be awarded in full and the expenditures are projected on a cash flow basis to accommodate the recommended financing strategy.  
**Comments** Matt Walma 2021/07/20 - This project was accidentally labelled as an annual which resulted in many different projectids in PeopleSoft as the projectid was changed after initial budget amounts were approved.

2017 Approved Detail Sheet 5141767422 approved \$500k (EA – Conceptual) but projectid was cancelled as it was put on hold for W/WW Master Plan to determine need.  
 2020 Detail Sheet 5142167422 still reflected \$500k Pre 2021 Budget as the Questica Project was kept Open and the projectid was changed.  
 This 2022 Detail Sheet submission replaces the previous Questica project which was closed in PeopleSoft. This includes the future budget request of \$1M for Land (New Budget Request) and \$500k for EA / Conceptual which was previously approved in 5141767422. There are no DC Revenues identified through the W/WW Master Plan at this time.

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Pumping Stations - Water	100%	14,050,000	-	14,050,000
		14,050,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	2,650,000	-	1,100,000	5,150,000	-	-	-	-	-	-	8,900,000
<b>Total Funding Source</b>	-	2,650,000	-	1,100,000	5,150,000	-	-	-	-	-	-	8,900,000
<b>Percent Increase</b>			(100.00%)	100.00%	368.18%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	-	-	1,000,000	-	-	-	-	-	-	-	1,000,000
55801 - Consulting Services	-	500,000	-	-	-	-	-	-	-	-	-	500,000
59212 - Construction	-	-	-	-	5,000,000	5,000,000	-	-	-	-	-	10,000,000
59259 - Land/Property Aquisition	-	2,000,000	-	-	-	-	-	-	-	-	-	2,000,000
59809 - Cap-Cur_Recovery_Oper Budget	-	150,000	-	100,000	150,000	150,000	-	-	-	-	-	550,000
<b>Total Expenditure</b>	-	2,650,000	-	1,100,000	5,150,000	5,150,000	-	-	-	-	-	14,050,000
<b>Percent Increase</b>			(100.00%)	100.00%	368.18%	0.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.



# Project Scenario Summary

## 5141567575 - High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	24.0
<b>Start Date</b>	2015-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2015
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Electrical upgrades required at the Woodward Avenue WTP Highlift Pumping Station to improve the reliability of various systems within the facility. Upgrades include: cabling improvements, replacement of low voltage wiring/receptacles, removal of redundant wiring, upgrade of old control room, HVAC improvements, electrical room floor finishes, security enhancements, emergency lighting, among other miscellaneous electrical items. Tender for construction will be awarded in full and the expenditures are projected on a cash flow basis to accommodate the recommended financing strategy.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Water Treatment Plant</b>	<b>100%</b>	<b>6,370,000</b>	<b>3,900,000</b>	<b>2,470,000</b>
		<b>6,370,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	2,100,000	2,470,000	-	-	-	-	-	-	-	-	-	2,470,000
49300 - CORP CONT FRM CURR TO CAP	1,800,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>3,900,000</b>	<b>2,470,000</b>	-	-	-	-	-	-	-	-	-	<b>2,470,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	100,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	2,250,000	2,250,000	-	-	-	-	-	-	-	-	-	2,250,000
59225 - Design Engineering Overhead	1,200,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	350,000	220,000	-	-	-	-	-	-	-	-	-	220,000
<b>Total Expenditure</b>	<b>3,900,000</b>	<b>2,470,000</b>	-	-	-	-	-	-	-	-	-	<b>2,470,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5141760754 - Kenilworth Transmission Watermain Renewal

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	66.0
<b>Start Date</b>	2017-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2017
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Rehabilitation of 500m of 1050mm diameter steel watermain. The steel watermain was built in 1959 and 1960, thus approximately 55 years old. This watermain is one of only two critical feeds servicing the mountain. External Rehabilitation of the 1050mm Steel Main.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Trunk > 450mm	100%	3,000,000	2,400,000	600,000
		3,000,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	2,000,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	400,000	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Total Funding Source</b>	2,400,000	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	2,000,000	600,000	-	-	-	-	-	-	-	-	-	600,000
59225 - Design Engineering Overhead	180,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	220,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	2,400,000	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5141761777 - Beach Trunkmain Rehab

<b>Project Manager</b>	Susan Jacob	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	66.0
<b>Start Date</b>	2017-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2017
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** Due to recorded failures and predicted high probability for increased failure rates in the near future, the existing joints of the 900mm watermain have become deficient and requires rehabilitation. This is intended to reduce overall service outages.  
**Comments** The joints will be repaired internally and the main will be lined which will extend the service life of the asset. The lining limits are Beach - Burlington to Ottawa and Ottawa - Beach to Barton.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Trunk > 450mm	100%	10,000,000	8,500,000	1,500,000
		10,000,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	8,500,000	1,500,000	-	-	-	-	-	-	-	-	-	1,500,000
<b>Total Funding Source</b>	<b>8,500,000</b>	<b>1,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	7,700,000	1,500,000	-	-	-	-	-	-	-	-	-	1,500,000
59809 - Cap-Cur_Recovery_Oper Budget	800,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	<b>8,500,000</b>	<b>1,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



59809 - Cap-Cur_Recovery_Oper Budget	740,000	50,000	150,000	150,000	150,000	-	-	-	-	-	-	500,000
<b>Total Expenditure</b>	<b>24,120,000</b>	<b>550,000</b>	<b>13,930,000</b>	<b>15,650,000</b>	<b>15,650,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>45,780,000</b>
<b>Percent Increase</b>			<b>2,432.73%</b>	<b>12.35%</b>	<b>0.00%</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5141867651 - HD007 Highland Rd Reservoir Upgrades

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	10.0
<b>Start Date</b>	2018-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	2018
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Upgrades are required in the interior of the reservoir in order to maintain an appropriate level of durability of the reservoir. Works include the provision of a protective surface coating on the reservoir walls to restore concrete surface.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storage (Reservoirs and Towers)	100%	1,430,000	260,000	1,170,000
		1,430,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	260,000	170,000	-	-	-	-	-	-	-	-	-	170,000
<b>Total Funding Source</b>	<b>260,000</b>	<b>170,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>170,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	150,000	-	-	-	-	-	-	-	-	-	150,000
59212 - Construction	-	-	900,000	-	-	-	-	-	-	-	-	900,000
59225 - Design Engineering Overhead	230,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	30,000	20,000	100,000	-	-	-	-	-	-	-	-	120,000
<b>Total Expenditure</b>	<b>260,000</b>	<b>170,000</b>	<b>1,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,170,000</b>
<b>Percent Increase</b>			488.24%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5141967375 - HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	58.0
<b>Start Date</b>	2019-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2019
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** Upgrades are required for the exterior and interior components of the Kenilworth and Ben Nevis reservoirs in order to maintain an appropriate level of durability of the structures. Works include concrete restoration and roofing system replacement as well as the removal of contaminated soils from Kenilworth Reservoir.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Storage (Reservoirs and Towers)</b>	<b>100%</b>	<b>15,990,000</b>	<b>15,660,000</b>	<b>330,000</b>
		<b>15,990,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	4,841,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	4,319,000	330,000	-	-	-	-	-	-	-	-	-	330,000
49412 - Contrib From Rsve	6,500,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>15,660,000</b>	<b>330,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>330,000</b>
<b>Percent Increase</b>		(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	200,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	13,980,000	300,000	-	-	-	-	-	-	-	-	-	300,000
59225 - Design Engineering Overhead	1,100,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	380,000	30,000	-	-	-	-	-	-	-	-	-	30,000
<b>Total Expenditure</b>	<b>15,660,000</b>	<b>330,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>330,000</b>
<b>Percent Increase</b>		(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142067450 - Lee Smith Reservoir (HDR00) Upgrades

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	20.0
<b>Start Date</b>	2020-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2020
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	Multi-discipline upgrades required to improve operational efficiency and prolong the useful life of the Lee Smith Reservoir (HDR00) as per recommendations of the Sustainable Asset Management program.				

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storage (Reservoirs and Towers)	100%	1,280,000	1,110,000	170,000
		1,280,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	1,110,000	170,000	-	-	-	-	-	-	-	-	-	170,000
<b>Total Funding Source</b>	<b>1,110,000</b>	<b>170,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>170,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	150,000	-	-	-	-	-	-	-	-	-	150,000
59212 - Construction	750,000	-	-	-	-	-	-	-	-	-	-	-
59225 - Design Engineering Overhead	250,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	110,000	20,000	-	-	-	-	-	-	-	-	-	20,000
<b>Total Expenditure</b>	<b>1,110,000</b>	<b>170,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>170,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5142111101 - Road Cut Restoration Program

<b>Project Manager</b>	David Lamont	<b>Section</b>	Geomatics and Corridor Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	83.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Complete final restoration on public right-of-way due to damage caused by the repair or replacement of water assets (eg, watermain break repair, valve replacements, chamber replacement, water service replacement, etc)

**Comments**  
**Expenditure By Asset Component**

No data found for the selected parameters.

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	2,565,000	-	-	-	-	-	-	-	-	-	2,565,000
49300 - CORP CONT FRM CURR TO CAP	5,400,000	-	-	-	-	-	-	-	-	-	-	-
49412 - Contrib From Rsve	-	5,400,000	-	-	-	-	-	-	-	-	-	5,400,000
<b>Total Funding Source</b>	<b>5,400,000</b>	<b>7,965,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,965,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	5,400,000	7,615,000	5,050,000	5,050,000	5,050,000	5,050,000	5,050,000	5,050,000	5,050,000	5,050,000	5,050,000	53,065,000
59801 - Cap-Cur_Recovery_Sal,Wage,Ben	-	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	3,500,000
<b>Total Expenditure</b>	<b>5,400,000</b>	<b>7,965,000</b>	<b>5,400,000</b>	<b>5,400,000</b>	<b>5,400,000</b>	<b>5,400,000</b>	<b>5,400,000</b>	<b>5,400,000</b>	<b>5,400,000</b>	<b>5,400,000</b>	<b>5,400,000</b>	<b>56,565,000</b>
<b>Percent Increase</b>			(32.20%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142157626 - Critical Watermain Inspection Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	55.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Critical high risk watermain data collection and analysis to facilitate condition assessment, prioritization of rehabilitation / replacement, or inspection cycle needs of approximately 3,200 m of pipe. Project involves data collection through various technologies such as non-destructive acoustical testing, pipe sample laboratory testing, and project assignments to engineering consulting firms.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	15,731,000	600,000	15,131,000
		15,731,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	131,000	-	-	-	-	-	-	-	-	-	131,000
49300 - CORP CONT FRM CURR TO CAP	600,000	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Total Funding Source</b>	<b>600,000</b>	<b>731,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>731,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	600,000	731,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	6,131,000
<b>Total Expenditure</b>	<b>600,000</b>	<b>731,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>6,131,000</b>
<b>Percent Increase</b>			(17.92%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142160072 - Watermain Structural Lining

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** Due to recorded failures and predicted high probability for increased failure rates in the near future. The existing watermains in proposed neighbourhoods and creek crossings have become structurally deficient and requires rehabilitation. This is intended to reduce overall service outages. The watermain will be lined with a structural liner which will extend the service life of the asset.

**Comments**  
**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Water Main Trunk &gt; 450mm</b>	<b>100%</b>	<b>161,800,000</b>	<b>7,700,000</b>	<b>154,100,000</b>
		<b>161,800,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	4,900,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	2,800,000	-	-	-	-	-	-	-	-	-	-	-
49412 - Contrib From Rsve	-	5,300,000	-	-	-	-	-	-	-	-	-	5,300,000
<b>Total Funding Source</b>	<b>7,700,000</b>	<b>5,300,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,300,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	7,700,000	5,300,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	61,100,000
<b>Total Expenditure</b>	<b>7,700,000</b>	<b>5,300,000</b>	<b>6,200,000</b>	<b>6,200,000</b>	<b>6,200,000</b>	<b>6,200,000</b>	<b>6,200,000</b>	<b>6,200,000</b>	<b>6,200,000</b>	<b>6,200,000</b>	<b>6,200,000</b>	<b>61,100,000</b>
<b>Percent Increase</b>			16.98%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**  
 No data found for the selected parameters.

# Project Scenario Summary

## 5142166713 - Water Maintenance Capital Program

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	63.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** To provide for various water maintenance items that are considered Capital for Plant Operations and Plant Maintenance and Technical Services. Projects include: water plant filter valves, distribution stations pump and valve refurbishments, chlorine building legacy equipment upgrades and security enhancements.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Water Treatment Plant</b>	<b>100%</b>	<b>49,000,000</b>	<b>-</b>	<b>49,000,000</b>
		<b>49,000,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48476 - Fr DC Rsv_TCA_Non-Res	-	-	-	-	-	-	-	-	-	-	-	-
DC_Cap	-	-	-	-	-	-	-	-	-	-	-	-
49002 - Debenture Proceeds	-	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Funding Source</b>	<b>-</b>	<b>1,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,000,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	19,000,000
<b>Total Expenditure</b>	<b>-</b>	<b>1,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>19,000,000</b>
<b>Percent Increase</b>			100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142169075 - City Environmental Lab Improvements Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	80.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** To upgrade / automate instrumentation required for monitoring and compliance testing of the City's drinking water.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	1,995,000	275,000	1,720,000
		1,995,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	275,000	340,000	-	-	-	-	-	-	-	-	-	340,000
<b>Total Funding Source</b>	<b>275,000</b>	<b>340,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>340,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	275,000	340,000	190,000	90,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	970,000
<b>Total Expenditure</b>	<b>275,000</b>	<b>340,000</b>	<b>190,000</b>	<b>90,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>970,000</b>
<b>Percent Increase</b>			(44.12%)	(52.63%)	(44.44%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5142166110 - Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	81.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2028-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>				<b>Project Status</b>	Open

### Wards

**Description** To design and undertake required upgrades to the process components of the water treatment facility which have reached the end of their useful life. This is the second of three separate phases of work to be tendered for design and construction. Each phase will be awarded in full and the expenditures have been projected on a cash flow basis to accommodate the recommended financing strategy.

**Comments** Phase 2 (Tender for Construction, 2022) - Security of supply, retrofit of sedimentation tanks for growth and performance enhancements of filters.

Previous Notes:

\$ DC in study does not appear to consider 3 phases of project, assume study only included growth related \$, \$50M in-period = appx Ph 2 growth portion.

2017.07.26 MW Notes : Ph 1 - \$27.9M, Ph 2 - \$97.25M, Ph 3 - \$28.15M with separate DC Growth calculations (0%, 27.5%, 100%) Formal update to DC BGS will be prepared by Consultant as a supporting appendix in 2018.

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Treatment Plant	100%	145,931,000	1,378,000	144,553,000
		145,931,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48475 - Fr DC	423,000	-	-	-	-	-	-	-	-	-	-	-
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res DC_Cap	248,000	-	-	-	-	-	-	-	-	-	-	-
49002 - Debenture Proceeds	-	740,000	-	-	-	-	-	-	-	-	-	740,000
49004 - Debenture Proceeds Dev Chgs - RE	-	395,000	776,000	5,502,000	15,735,000	12,295,000	3,554,000	3,291,000	-	-	-	41,548,000
49005 - Debenture Proc Dev Chg Non RES	-	232,000	456,000	3,231,000	9,241,000	7,221,000	2,088,000	1,933,000	-	-	-	24,402,000
49255 - Inter Capital Transfers	-	(249,000)	-	-	-	-	-	-	-	-	-	(249,000)
49300 - CORP CONT FRM CURR TO CAP	707,000	11,000	-	-	-	-	-	-	-	-	-	11,000
<b>Total Funding Source</b>	<b>1,378,000</b>	<b>1,129,000</b>	<b>1,232,000</b>	<b>8,733,000</b>	<b>24,976,000</b>	<b>19,516,000</b>	<b>5,642,000</b>	<b>5,224,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>66,452,000</b>
<b>Percent Increase</b>			<b>9.12%</b>	<b>608.85%</b>	<b>186.00%</b>	<b>(21.86%)</b>	<b>(71.09%)</b>	<b>(7.41%)</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	

### Expenditure

59212 - Construction	-	(249,000)	-	15,924,000	51,587,000	40,231,000	11,593,000	10,774,000	-	-	-	129,860,000
59225 - Design Engineering Overhead	1,278,000	1,278,000	2,555,000	3,101,000	3,101,000	2,468,000	644,000	546,000	-	-	-	13,693,000

59809 - Cap-Cur_Recovery_Oper Budget	100,000	100,000	150,000	150,000	150,000	150,000	150,000	150,000	-	-	-	1,000,000
<b>Total Expenditure</b>	<b>1,378,000</b>	<b>1,129,000</b>	<b>2,705,000</b>	<b>19,175,000</b>	<b>54,838,000</b>	<b>42,849,000</b>	<b>12,387,000</b>	<b>11,470,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>144,553,000</b>
<b>Percent Increase</b>			<b>139.59%</b>	<b>608.87%</b>	<b>185.99%</b>	<b>(21.86%)</b>	<b>(71.09%)</b>	<b>(7.40%)</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142167420 - HDR18 Glancaster Reservoir Ugrades

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	8.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2024-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** Civil, Process Mechanical, electrical and Structural upgrades required to improve operational efficiency and prolong the useful life of Water Outstation HDR18 as per recommendations of the Sustainable Plant Asset Management program.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storage (Reservoirs and Towers)	100%	3,410,000	440,000	2,970,000
		3,410,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	440,000	-	1,100,000	-	-	-	-	-	-	-	1,540,000
49300 - CORP CONT FRM CURR TO CAP	440,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	440,000	440,000	-	1,100,000	-	-	-	-	-	-	-	1,540,000
<b>Percent Increase</b>			(100.00%)	100.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	-	1,300,000	1,000,000	-	-	-	-	-	-	-	2,300,000
59225 - Design Engineering Overhead	400,000	400,000	-	-	-	-	-	-	-	-	-	400,000
59809 - Cap-Cur_Recovery_Oper Budget	40,000	40,000	130,000	100,000	-	-	-	-	-	-	-	270,000
<b>Total Expenditure</b>	440,000	440,000	1,430,000	1,100,000	-	-	-	-	-	-	-	2,970,000
<b>Percent Increase</b>			225.00%	(23.08%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5142167421 - HDR11 Woodley Lane Reservoir Upgrades

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	7.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Civil, Process Mechanical and Structural upgrades required to improve operational efficiency and prolong the useful life of the Woodley Lane water reservoir as per recommendations of the Sustainable Plant Asset Management program.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storage (Reservoirs and Towers)	100%	2,270,000	1,600,000	670,000
		2,270,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	1,600,000	170,000	-	-	-	-	-	-	-	-	-	170,000
<b>Total Funding Source</b>	<b>1,600,000</b>	<b>170,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>170,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	1,050,000	-	450,000	-	-	-	-	-	-	-	-	450,000
59225 - Design Engineering Overhead	400,000	150,000	-	-	-	-	-	-	-	-	-	150,000
59809 - Cap-Cur_Recovery_Oper Budget	150,000	20,000	50,000	-	-	-	-	-	-	-	-	70,000
<b>Total Expenditure</b>	<b>1,600,000</b>	<b>170,000</b>	<b>500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>670,000</b>
<b>Percent Increase</b>			194.12%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142261741 - Resetting or Adjusting of Water Utility Structures

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	13.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** For the resetting of existing frames and covers of manholes and valve chambers as well as re-benching manholes, replacing manhole steps and parging voids in concrete manholes. The scope of Work includes but is not limited to the resetting or adjustment of existing water utility structures such as manholes and valve chamber frame and covers, replacing manhole steps and parging voids in their associated concrete structures.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Valves & Chambers - Local	100%	6,250,000	-	6,250,000
		6,250,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Total Funding Source</b>	-	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000
<b>Total Expenditure</b>	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142261240 - Woodward Treatment Plant Filter Building - Flume Watermain Lining

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	34.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** The Flume piping system is located in the filter building at the Woodward Treatment Plant. The watermain is scheduled for rehabilitation in 2022. This work will mitigate risk to the corporation and property owners by increasing the structural integrity of the watermains. Condition assessment Inspection and rehabilitation of the existing Flume piping system in module 1 and 2 located in the Filter Building @ the Woodward Treatment Plant.

**Comments**

**Expenditure By Asset Component**

No data found for the selected parameters.

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	2,000,000	-	-	-	-	-	-	-	-	-	2,000,000
<b>Total Funding Source</b>	-	<b>2,000,000</b>	-	-	-	-	-	-	-	-	-	<b>2,000,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	2,000,000	-	-	-	-	-	-	-	-	-	2,000,000
<b>Total Expenditure</b>	-	<b>2,000,000</b>	-	-	-	-	-	-	-	-	-	<b>2,000,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142267585 - Diesel Fuel Storage Compliance Upgrades

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	48.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	Bring 17 GenSets at Water Facilities up to CSA code prior to expiry of TSSA Variance.				
<b>Comments</b>					

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Pumping Stations - Water</b>	<b>100%</b>	<b>1,100,000</b>	<b>-</b>	<b>1,100,000</b>
		<b>1,100,000</b>		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	-	<b>500,000</b>	-	-	-	-	-	-	-	-	-	<b>500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	200,000	-	-	-	-	-	-	-	-	-	200,000
59212 - Construction	-	300,000	600,000	-	-	-	-	-	-	-	-	900,000
<b>Total Expenditure</b>	-	<b>500,000</b>	<b>600,000</b>	-	-	-	-	-	-	-	-	<b>1,100,000</b>
<b>Percent Increase</b>			20.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5141966420 - Woodward WTP Chlorine Chemical Building

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	28.0
<b>Start Date</b>	2019-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2019
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** To undertake the immediate needs identified in the Chlorine Chemical Building Condition Assessment and additional needs are required in order to sustain the existing building until a new chlorine facility is constructed within the WTP Phase 2 contract (estimated completion is 2029).

**Comments**

**Expenditure By Asset Component**

<b>Asset Components</b>	<b>Share</b>	<b>Total Budget</b>	<b>Previously Approved</b>	<b>Forecast Budget</b>
<b>Water Treatment Plant</b>	<b>100%</b>	<b>2,180,000</b>	<b>800,000</b>	<b>1,380,000</b>
		<b>2,180,000</b>		

**Project Forecast**

<b>GL Account</b>	<b>Pre 2022</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>Total</b>
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	1,380,000	-	-	-	-	-	-	-	-	-	1,380,000
49300 - CORP CONT FRM CURR TO CAP	800,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>800,000</b>	<b>1,380,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,380,000</b>
<b>Percent Increase</b>			<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	
<b>Expenditure</b>												
55441 - Design	-	350,000	-	-	-	-	-	-	-	-	-	350,000
55801 - Consulting Services	100,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	660,000	900,000	-	-	-	-	-	-	-	-	-	900,000
59225 - Design Engineering Overhead	40,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	-	130,000	-	-	-	-	-	-	-	-	-	130,000
<b>Total Expenditure</b>	<b>800,000</b>	<b>1,380,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,380,000</b>
<b>Percent Increase</b>			<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142266712 - Water Maintenance - Rebuild, Replacement and New Capital

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	63.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** This is an annual program to rebuild, replace or add equipment considered to be a tangible capital asset. This work would be completed as part of the maintenace program. This is for all water infrastructure maintained by the Plant Maintenance and Technical Services Section within Hamilton Water.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Treatment Plant	100%	5,200,000	-	5,200,000
		5,200,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	400,000	-	-	-	-	-	-	-	-	-	400,000
<b>Total Funding Source</b>	-	400,000	-	-	-	-	-	-	-	-	-	400,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	400,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,200,000
<b>Total Expenditure</b>	-	400,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,200,000
<b>Percent Increase</b>			(50.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142266220 - Water Treatment Plant - Clearwells Concrete Restoration Upgrades

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	21.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2025-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Upgrades are required in the interior of the clearwells in order to maintain an appropriate level of durability of the reservoir. Works include structural rehabilitation to restore concrete surface and other minor works to improve process mechanical, electrical, instrumentation/control and architectural.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Treatment Plant	100%	6,100,000	-	6,100,000
		6,100,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Total Funding Source</b>	-	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	500,000	600,000	-	-	-	-	-	-	-	-	1,100,000
59212 - Construction	-	-	-	2,300,000	2,300,000	-	-	-	-	-	-	4,600,000
59809 - Cap-Cur_Recovery_Oper Budget	-	100,000	100,000	100,000	100,000	-	-	-	-	-	-	400,000
<b>Total Expenditure</b>	-	600,000	700,000	2,400,000	2,400,000	-	-	-	-	-	-	6,100,000
<b>Percent Increase</b>			16.67%	242.86%	0.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142266320 - Woodward Water Treatment Plant - Low Lift Pumping Station Intake Repairs

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	37.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Upgrade the existing WTP Lowlift intake structure as outlined in the Raw Water Intake Pipeline ROV Inspection Report, RVA 2021. Review scope of work with Stakeholders, develop Terms of Reference, hire a consultant for investigation, design, issue tender for construction.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Treatment Plant	100%	830,000	-	830,000
		830,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	830,000	-	-	-	-	-	-	-	-	-	830,000
<b>Total Funding Source</b>	-	830,000	-	-	-	-	-	-	-	-	-	830,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	500,000	-	-	-	-	-	-	-	-	-	500,000
59274 - Preliminary Design	-	250,000	-	-	-	-	-	-	-	-	-	250,000
59803 - Cap-Cur_Recovery_Contracts	-	80,000	-	-	-	-	-	-	-	-	-	80,000
<b>Total Expenditure</b>	-	830,000	-	-	-	-	-	-	-	-	-	830,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5141567273 - Main / Whitney Pumping Station Replacement and Decommissioning

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	51.0
<b>Start Date</b>	2015-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	2015
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Replacement of the aging below grade station with a more suitable above ground station that meets the City’s design standards as well as provides a safer work environment for City staff is recommended by the City’s Asset Management Strategy. The recommended upgrades, rehabilitations and replacements include work to ensure that current levels of service for the facility can be effectively maintained in the long-term. Improvements were also identified that will bring the existing level of service in compliance with current standards of practice and regulations.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Pumping Stations - Water</b>	<b>100%</b>	<b>6,170,000</b>	<b>2,180,000</b>	<b>3,990,000</b>
		<b>6,170,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	520,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	1,660,000	140,000	-	-	-	-	-	-	-	-	-	140,000
<b>Total Funding Source</b>	<b>2,180,000</b>	<b>140,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>140,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	130,000	-	-	-	-	-	-	-	-	-	130,000
55801 - Consulting Services	530,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	-	-	3,500,000	-	-	-	-	-	-	-	-	3,500,000
59225 - Design Engineering Overhead	470,000	-	-	-	-	-	-	-	-	-	-	-
59259 - Land/Property Aquisition	1,000,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	180,000	10,000	350,000	-	-	-	-	-	-	-	-	360,000
<b>Total Expenditure</b>	<b>2,180,000</b>	<b>140,000</b>	<b>3,850,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,990,000</b>
<b>Percent Increase</b>			2,650.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



59809 - Cap-Cur_Recovery_Oper Budget	260,000	20,000	150,000	150,000	-	-	-	-	-	-	-	320,000
<b>Total Expenditure</b>	<b>1,660,000</b>	<b>220,000</b>	<b>2,650,000</b>	<b>4,350,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,220,000</b>
<b>Percent Increase</b>			<b>1,104.55%</b>	<b>64.15%</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5141966151 - SCADA Maintenance Program

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	51.0
<b>Start Date</b>	2019-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2019
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** To repair, replace, upgrade and maintain SCADA related equipment, parts, components and software to ensure system reliability and security.

**Comments**

**Expenditure By Asset Component**

<b>Asset Components</b>	<b>Share</b>	<b>Total Budget</b>	<b>Previously Approved</b>	<b>Forecast Budget</b>
<b>Water Treatment Plant</b>	<b>100%</b>	<b>8,775,000</b>	<b>2,650,000</b>	<b>6,125,000</b>
		<b>8,775,000</b>		

**Project Forecast**

<b>GL Account</b>	<b>Pre 2022</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>Total</b>
<b>Funding Source</b>												
49002 - Debenture Proceeds	2,500,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	150,000	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Funding Source</b>	<b>2,650,000</b>	<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	250,000	-	125,000	-	-	125,000	-	-	-	-	-	250,000
59212 - Construction	2,150,000	150,000	150,000	275,000	900,000	150,000	1,400,000	150,000	150,000	150,000	150,000	3,625,000
59225 - Design Engineering Overhead	250,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	<b>2,650,000</b>	<b>150,000</b>	<b>275,000</b>	<b>275,000</b>	<b>900,000</b>	<b>275,000</b>	<b>1,400,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>3,875,000</b>
<b>Percent Increase</b>			83.33%	0.00%	227.27%	(69.44%)	409.09%	(89.29%)	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142066310 - WTP Pre-Treatment Isolation Valves

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	50.0
<b>Start Date</b>	2020-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2020
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** The existing pre-treatment isolation valving/chambers are critical for accommodating key maintenance/construction activities at the Woodward WTP and are at the end of their useful life and require replacement.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Treatment Plant	100%	2,480,000	1,930,000	550,000
		2,480,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	1,930,000	550,000	-	-	-	-	-	-	-	-	-	550,000
<b>Total Funding Source</b>	<b>1,930,000</b>	<b>550,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>550,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	1,100,000	500,000	-	-	-	-	-	-	-	-	-	500,000
59225 - Design Engineering Overhead	650,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	180,000	50,000	-	-	-	-	-	-	-	-	-	50,000
<b>Total Expenditure</b>	<b>1,930,000</b>	<b>550,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>550,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142149555 - QA-QC Service Contract Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	34.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Allocated funding to provide quality assurance and control for existing road rehabilitation and replacement contracts. Includes but not limited to: coupon testing, CCTV, soil resistivity and compaction.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Professional Services	100%	4,100,000	210,000	3,890,000
		4,100,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	140,000	-	-	-	-	-	-	-	-	-	140,000
49300 - CORP CONT FRM CURR TO CAP	210,000	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Funding Source</b>	210,000	290,000	-	-	-	-	-	-	-	-	-	290,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	290,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,640,000
59212 - Construction	210,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	210,000	290,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,640,000
<b>Percent Increase</b>			(48.28%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142160080 - Valve Replacement Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	55.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** To replace large inoperable distribution valves in order to minimize operational risk. Valves are identified for replacement through ongoing valve preventative maintenance programs. At present, 23 valves have been identified for replacement throughout the City. Each valve replacement requires full engineering design, tendering and construction and cost of valve replacements vary from \$250k - \$500k each, depending on valve size and complexity.

- Comments** 2020 (\$4,400k)
1. (HC10V054): Fennell Ave E @ East 17th St
  2. (HC10V055): Fennell @ East 12th
  3. (HC11V052): Fennell @ Upper Wentworth
  4. (HD09V051): Fennell @ East 34th
  5. (HD06V031): Fennell @ Upper Ottawa
  6. (HD13V056): Upper Ottawa @ 105 s/o Sandalwood
  7. (HA10V007): Robert @ West Ave North
  8. (HB22V027): Barton @ Kenilworth

- 2021 (\$1,300k)
1. (HC27V042): Garth @ Mohawk
  2. (SE04V001): 100 m w/o Centennial PKY

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Valves & Chambers - Local	100%	36,480,000	1,200,000	35,280,000
		36,480,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	1,170,000	-	-	-	-	-	-	-	-	-	1,170,000
49300 - CORP CONT FRM CURR TO CAP	1,200,000	2,610,000	-	-	-	-	-	-	-	-	-	2,610,000
<b>Total Funding Source</b>	<b>1,200,000</b>	<b>3,780,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,780,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	1,200,000	3,780,000	1,720,000	1,450,000	1,780,000	1,640,000	1,500,000	1,380,000	1,400,000	1,430,000	1,200,000	17,280,000
<b>Total Expenditure</b>	<b>1,200,000</b>	<b>3,780,000</b>	<b>1,720,000</b>	<b>1,450,000</b>	<b>1,780,000</b>	<b>1,640,000</b>	<b>1,500,000</b>	<b>1,380,000</b>	<b>1,400,000</b>	<b>1,430,000</b>	<b>1,200,000</b>	<b>17,280,000</b>
<b>Percent Increase</b>			(54.50%)	(15.70%)	22.76%	(7.87%)	(8.54%)	(8.00%)	1.45%	2.14%	(16.08%)	

**Project Impact Forecast**

# Project Scenario Summary

## 5142160577 - Metallic Watermain Condition Assessment Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** A detailed inspection of approximately 3,000 m of metallic watermain will help determine remaining life of the watermain. This will dictate management strategies, future needs, will help reduce the risk associated with major ruptures, and service outages. This project involves data collection through various technologies such as non-destructive acoustical testing, pipe sample laboratory testing, and project assignments to engineering consulting firms. Detailed condition assessment - Inspection of pipeline using specialized equipment.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Trunk > 450mm	100%	16,565,000	630,000	15,935,000
		16,565,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	185,000	-	-	-	-	-	-	-	-	-	185,000
49300 - CORP CONT FRM CURR TO CAP	630,000	630,000	-	-	-	-	-	-	-	-	-	630,000
<b>Total Funding Source</b>	<b>630,000</b>	<b>815,000</b>	-	-	-	-	-	-	-	-	-	<b>815,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	630,000	815,000	630,000	630,000	630,000	630,000	630,000	630,000	630,000	630,000	630,000	6,485,000
<b>Total Expenditure</b>	<b>630,000</b>	<b>815,000</b>	<b>630,000</b>	<b>630,000</b>	<b>630,000</b>	<b>630,000</b>	<b>630,000</b>	<b>630,000</b>	<b>630,000</b>	<b>630,000</b>	<b>630,000</b>	<b>6,485,000</b>
<b>Percent Increase</b>			(22.70%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5142160711 - PW Capital Water Consumption Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	25.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Water consumption used for watermain works on City contracts, during constructions i.e. flushing watermains, etc.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Trunk > 450mm	100%	6,500,000	250,000	6,250,000
		6,500,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	250,000	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Total Funding Source</b>	<b>250,000</b>	<b>250,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>250,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000
<b>Total Expenditure</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>2,500,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5142160750 - Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	17.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** For the repair of watermains and the replacement of valves and hydrants as a result of failures in the system. The majority of the described works are unscheduled, emergency works on the water distribution system that occur throughout the City and throughout the year.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Valves & Chambers - Trunk	100%	62,750,000	3,000,000	59,750,000
		62,750,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	3,000,000	1,550,000	-	-	-	-	-	-	-	-	-	1,550,000
49412 - Contrib From Rsve	-	1,300,000	-	-	-	-	-	-	-	-	-	1,300,000
<b>Total Funding Source</b>	<b>3,000,000</b>	<b>2,850,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,850,000</b>
<b>Percent Increase</b>		(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	3,000,000	2,850,000	2,850,000	2,350,000	2,350,000	2,350,000	2,350,000	2,350,000	2,350,000	2,350,000	2,350,000	24,500,000
<b>Total Expenditure</b>	<b>3,000,000</b>	<b>2,850,000</b>	<b>2,850,000</b>	<b>2,350,000</b>	<b>2,350,000</b>	<b>2,350,000</b>	<b>2,350,000</b>	<b>2,350,000</b>	<b>2,350,000</b>	<b>2,350,000</b>	<b>2,350,000</b>	<b>24,500,000</b>
<b>Percent Increase</b>			0.00%	(17.54%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142162078 - Substandard Water Service Replacement Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	9.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** Remove and replace substandard water services (improper size and material), primarily to residential properties. This includes lead service replacements as mandated by the Provincial Government. This is a voluntary program available to all residents who have a substandard water service. The City currently replaces approximately 600 services annually under this program.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	53,450,000	2,750,000	50,700,000
		53,450,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	2,750,000	2,350,000	-	-	-	-	-	-	-	-	-	2,350,000
<b>Total Funding Source</b>	<b>2,750,000</b>	<b>2,350,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,350,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	2,750,000	2,350,000	2,350,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	20,700,000
<b>Total Expenditure</b>	<b>2,750,000</b>	<b>2,350,000</b>	<b>2,350,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>20,700,000</b>
<b>Percent Increase</b>			0.00%	(14.89%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142271318 - Eastmount Neighbourhood - Water

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Install new PVC watermain ahead of road resurfacing work to increase interconnections and operational continuity of the system. Install new 150mm watermain on Mountain Park Ave from Upper Wentworth to Summit Ave (HC02V030 to HC02E001) to increase interconnections and operational continuity. CPMS 11483

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Main Local < 450 mm	100%	210,000	-	210,000
		210,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	50,000	-	-	-	-	-	-	-	-	-	50,000
49300 - CORP CONT FRM CURR TO CAP	-	160,000	-	-	-	-	-	-	-	-	-	160,000
<b>Total Funding Source</b>	-	210,000	-	-	-	-	-	-	-	-	-	210,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	210,000	-	-	-	-	-	-	-	-	-	210,000
<b>Total Expenditure</b>	-	210,000	-	-	-	-	-	-	-	-	-	210,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142260081 - Large Valve Replacement - Nash (LRT Enabling)

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	51.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	(HB69V029, HB68V033, HB65V037): Nash @ Queenston (HB66V039): Nash @ King CPMS 10822				

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Valves & Chambers - Trunk	100%	2,000,000	-	2,000,000
		2,000,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
43526 - Provincial Contribution	-	2,000,000	-	-	-	-	-	-	-	-	-	2,000,000
<b>Total Funding Source</b>	-	2,000,000	-	-	-	-	-	-	-	-	-	2,000,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	2,000,000	-	-	-	-	-	-	-	-	-	2,000,000
<b>Total Expenditure</b>	-	2,000,000	-	-	-	-	-	-	-	-	-	2,000,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142260082 - Large Valve Replacement - Longwood and Glenside (LRT Enabling)

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	51.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	(HA47V004): Longwood 100m south of Main (HA38V005): Glenside west of Chedoke CPMS 10822				

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Valves & Chambers - Trunk	100%	1,000,000	-	1,000,000
		1,000,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
43526 - Provincial Contribution	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Funding Source</b>	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Expenditure</b>	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142266871 - Hamilton Water Capital Security Plan

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Safety/ Security	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	20.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2031-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** CCTV System Refresh & Expansion, Perimeter Security Fencing & Gate Entry Project, Security Incident Management & Reporting Software, Card Access Control Refresh & Expansion, Intercom / Emergency Duress / Emergency Paging System, Plant Key System Replacement (Door Hardware & Key Cores), Security Guard Inspection Validation System, Intrusion Detection Systems, Station Intrusion Detection System Refresh, Signage Deployment & Refresh at 700 Woodward and various Water and Wastewater Facilities.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Water Treatment Plant</b>	<b>100%</b>	<b>4,540,000</b>	<b>-</b>	<b>4,540,000</b>
		<b>4,540,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	1,030,000	-	-	-	-	-	-	-	-	-	1,030,000
<b>Total Funding Source</b>	<b>-</b>	<b>1,030,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,030,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55916 - Contractual Services	-	1,030,000	1,060,000	1,130,000	790,000	450,000	10,000	25,000	10,000	25,000	10,000	4,540,000
<b>Total Expenditure</b>	<b>-</b>	<b>1,030,000</b>	<b>1,060,000</b>	<b>1,130,000</b>	<b>790,000</b>	<b>450,000</b>	<b>10,000</b>	<b>25,000</b>	<b>10,000</b>	<b>25,000</b>	<b>10,000</b>	<b>4,540,000</b>
<b>Percent Increase</b>			2.91%	6.60%	(30.09%)	(43.04%)	(97.78%)	150.00%	(60.00%)	150.00%	(60.00%)	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5142266351 - Woodward SCADA OT (Operating Technology) Security Program

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	Water - Water	<b>Project Rank</b>	0.0
<b>Project Type</b>	Safety/ Security	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	51.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Program, will promote a risk-based approach to OT security and ensure that people, processes and technologies are in place to address gaps identified by the Cybersecurity Audit done at the end of 2020 by City auditor. For consultant service to look at putting a program in place and identified risk, cost and resources required to put in place and maintain SCADA\OT Cybersecurity system to meet the City requirements pertaining to cyber security .

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	125,000	-	125,000
		125,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	125,000	-	-	-	-	-	-	-	-	-	125,000
<b>Total Funding Source</b>	-	125,000	-	-	-	-	-	-	-	-	-	125,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	125,000	-	-	-	-	-	-	-	-	-	125,000
<b>Total Expenditure</b>	-	125,000	-	-	-	-	-	-	-	-	-	125,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5142101099 - Engineering Services Staffing Costs - Water

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Staffing Costs	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	99.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** To fund Engineering Services staffing costs through capital for work on water related capital projects, both in-year and future. In the past, these charges were built into in-year approved capital projects on a pro-rated basis. In order to provide more transparency and capture staffing costs for future works in a more accurate way, these staffing costs are now reflected in this project and removed from all other individual Engineering Services projects.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Water Other	100%	117,200,000	4,700,000	112,500,000
		117,200,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	464,000	-	-	-	-	-	-	-	-	-	464,000
49300 - CORP CONT FRM CURR TO CAP	4,700,000	4,036,000	-	-	-	-	-	-	-	-	-	4,036,000
<b>Total Funding Source</b>	<b>4,700,000</b>	<b>4,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59809 - Cap-Cur_Recovery_Oper Budget	4,700,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	45,000,000
<b>Total Expenditure</b>	<b>4,700,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>45,000,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# WASTEWATER

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# WASTEWATER

## 2022 Funding By Source

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**City of Hamilton  
Wastewater System  
2022 Capital Budget Project List  
(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5162180187	Garner Road Trunk Sanitary Sewer - Hwy 6 w/o Raymond - CASH FLOW	4,000,000			4,000,000			-		
	5162280280	Dewitt Road Sanitary Sewer - Barton to SSR	1,000,000		500,000				500,000	500,000	
	5162280281	Dickenson Road West Sanitary Sewer - Garth Street Extension to Upper James Street	2,670,000			2,670,000			-		
	5162280282	Fifty Road Trunk Sanitary Sewer	1,300,000			1,300,000			-		
	5162280284	Shaver Road Sanitary Sewer - Osprey to hydro corridor	600,000			600,000			-		
<b>Coordinated - Network Extension Total</b>			<b>9,570,000</b>		<b>500,000</b>	<b>8,570,000</b>			<b>500,000</b>	<b>500,000</b>	
Coordinated - Replacement	5162171015	Sewer Lateral Replacement for Co-ordinated Projects	600,000					100,000	500,000	500,000	
	5162171025	Dewitt - Highway 8 to Barton	1,040,000						1,040,000	1,040,000	
	5162271012	Strathearne - Main to Britannia - Sewer Laterals	170,000						170,000	170,000	
	5162271306	Kelvin - Old Orchard to south end	60,000						60,000	60,000	
	5162272205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,250,000					1,250,000	-		
	5162271308	Concession / Mountain Brow - Upper Gage to Oakcrest	150,000						150,000	150,000	
	5162271021	Westdale South Neighbourhood (Central)	30,000						30,000	30,000	
	5162271296	Governor's - Main to Ogilvie (Bridge 296)	380,000						380,000	380,000	
	5162271022	Burlington - James to Ferguson	440,000					240,000	200,000	200,000	
	5162271109	Scenic - Mohawk to Chateau	70,000						70,000	70,000	
	5162271214	Fairfield - Barton to Britannia	250,000						250,000	250,000	
	5162271303	Marion - Longwood to Dromore	180,000						180,000	180,000	
	<b>Coordinated - Replacement Total</b>			<b>4,620,000</b>					<b>1,590,000</b>	<b>3,030,000</b>	<b>3,030,000</b>
Demolition / Disposal	5162068851	Pier 25 Dredging - Windermere Basin	13,250,000						13,250,000	13,250,000	
<b>Demolition / Disposal Total</b>			<b>13,250,000</b>						<b>13,250,000</b>	<b>13,250,000</b>	
Enhancement	5162241350	Pilot solar power installation at a Class B Hamilton Water facility	150,000						150,000	150,000	-
	5162268757	Lower Chedoke Combined EA Study	280,000				280,000		-	-	
	5162268767	Chedoke Watershed Stormwater Retrofit EA Study	280,000				280,000		-	-	
<b>Enhancement Total</b>			<b>710,000</b>				<b>560,000</b>		<b>150,000</b>	<b>150,000</b>	<b>-</b>
Expansion / Extension	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	4,500,000			4,500,000			-		
	5162280283	370 Garner Road Pumping Station (AEGD)	3,500,000		3,500,000				-		
<b>Expansion / Extension Total</b>			<b>8,000,000</b>		<b>3,500,000</b>	<b>4,500,000</b>			<b>-</b>		
Feasibility Plans / EA's/ Studies	5161555264	City-Wide Wastewater Master Plan	280,000			280,000			-		
	5161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities	550,000		-				550,000	550,000	
	5162055800	Sewer Outfall Monitoring Study	500,000						500,000	500,000	
	5162095800	Flooding & Drainage Master Plan Capital Improvements	450,000						450,000	450,000	
	5162149555	QA-QC Service Contract Program	150,000						150,000	150,000	
	5162155010	Wastewater Systems Planning Program	600,000						600,000	600,000	
	5162155022	Engineering Consultant Sewermain Projects	500,000						500,000	500,000	
	5162155556	Mapping Update Program	40,000						40,000	40,000	
	5162155878	Forcemain Condition Assessment Program	626,000					356,000	270,000	270,000	
	5162157545	Wastewater Computer Model Update & Maintenance	220,000					-	220,000	220,000	
	5162167752	Wastewater Outstation Inspections - Asset Management Program	1,020,000						1,020,000	1,020,000	
	5162168777	Chedoke Creek Water Quality Improvements (CASH FLOWED)	9,050,000					9,050,000	-	-	
	5162562543	CSO Characterization Program	170,000						170,000	170,000	
	5162255242	Combined Sewer Outfall Monitoring Study	600,000					-	600,000	600,000	
	5162255800	Inflow & Infiltration Study for New Subdivisions	550,000						550,000	550,000	
	5162262305	Iona Avenue Sewer Improvements	330,000						330,000	330,000	
	5162257800	Wastewater Facility Asset Management Implementation Plan	100,000						100,000	100,000	
	<b>Feasibility Plans / EA's/ Studies Total</b>			<b>15,736,000</b>		<b>-</b>	<b>280,000</b>	<b>9,050,000</b>	<b>356,000</b>	<b>6,050,000</b>	<b>6,050,000</b>
Licenses	5162162073	Field Data Systems Program	110,000						110,000	110,000	
<b>Licenses Total</b>			<b>110,000</b>						<b>110,000</b>	<b>110,000</b>	

**City of Hamilton  
Wastewater System  
2022 Capital Budget Project List  
(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
New	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	20,300,000			20,300,000			-		
	5162280285	Drop Structure Installation - Upper Centennial Trunk Sewer Manhole #10	500,000						500,000	500,000	
<b>New Total</b>			<b>20,800,000</b>			<b>20,300,000</b>			<b>500,000</b>	<b>500,000</b>	
Rehabilitation / Renovation	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	37,895,253	-		5,067,000	-		32,828,253	6,478,253	26,350,000
	5160966910	Woodward WWTP - Biosolids Management Facility	2,770,000			523,530	-		2,246,470	2,246,470	
	5161966511	Woodward WWTP - Digester 3 & 5 (CASH FLOWED)	4,710,000						4,710,000	4,710,000	
	5162067425	Hillside SPS (DC006) Upgrades	280,000						280,000	280,000	
	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	1,100,000						1,100,000	1,100,000	-
	5162111101	Road Cut Restoration Program	2,315,000					515,000	1,800,000	1,800,000	
	5162160302	Emergency Repairs - Cross Connections Program	1,470,000					1,170,000	300,000	300,000	
	5162160390	Wastewater System Lining Program	4,050,000					400,000	3,650,000	3,650,000	
	5162160522	Sewer Lateral Management Program (WWC)	4,000,000						4,000,000	4,000,000	
	5162160533	Trenchless Manhole Rehabilitation	250,000					70,000	180,000	180,000	
	5162160574	Capital Programming Sewer Inspection & Assessment	1,150,000					450,000	700,000	700,000	
	5162160575	Mainline Sewer Condition Assessment Program	2,030,000					890,000	1,140,000	1,140,000	
	5162160576	Sewer Lateral Condition Assessment Program	790,000					540,000	250,000	250,000	
	5162161444	Sewer Lateral Replace/Rehab Program	3,620,000					520,000	3,100,000	3,100,000	
	5162169075	City Environmental Lab Improvements Program	340,000						340,000	340,000	
	5162167501	Odour Control Program & Media Replacement	1,000,000						1,000,000	1,000,000	
	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	330,000						330,000	330,000	-
	5162261741	Resetting or Adjusting of Wastewater Utility Structures	250,000						250,000	250,000	
	5162262250	Eastern Sewer Interceptor (ESI) - South Service - Fruitland to Green	8,000,000					3,067,585	4,932,415	4,932,415	
	5162267375	Beach Boulevard (HC051) Wastewater Pump Station Upgrades	440,000						440,000	440,000	
	5162267376	Rockcliffe (DC015) Wastewater Pumping Station Upgrades	990,000						990,000	990,000	-
	5162266911	Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)	3,450,000						3,450,000	3,450,000	
	5162267585	Diesel Fuel Storage Compliance Upgrades	1,100,000						1,100,000	1,100,000	
	5162166810	Woodward WWTP - Maintenance Building (CASH FLOWED)	500,000						500,000	500,000	
	5162266712	Wastewater Maintenance - Rebuild, Replacement and New Capital	600,000						600,000	600,000	
	5165522888	Mill St Bridge - Sanitary Sewer Erosion Protection	350,000						350,000	350,000	
<b>Rehabilitation / Renovation Total</b>			<b>83,780,253</b>	<b>-</b>		<b>5,590,530</b>	<b>3,067,585</b>	<b>4,555,000</b>	<b>70,567,138</b>	<b>44,217,138</b>	<b>26,350,000</b>
Relocation	5162255900	EA - McMaster Innovation Park (MIP) Storm Sewer Relocation	5,650,000						5,650,000		5,650,000
<b>Relocation Total</b>			<b>5,650,000</b>						<b>5,650,000</b>		<b>5,650,000</b>
Replacement	5161966151	SCADA Maintenance Program	150,000						150,000	150,000	
	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations	219,000					119,000	100,000	100,000	
	5162160711	PW Capital Water Consumption Program	250,000						250,000	250,000	
	5162160820	Open Cut Repairs for CIPP Program	620,000					120,000	500,000	500,000	
	5162161740	Unscheduled Manhole and Sewermain Replacement Program	750,000						750,000	750,000	
5162171074	Contingency for Unscheduled Works Program	180,000						180,000	180,000		
<b>Replacement Total</b>			<b>2,169,000</b>					<b>239,000</b>	<b>1,930,000</b>	<b>1,930,000</b>	
Safety/ Security	5162266351	Woodward SCADA OT (Operating Technology) Security Program	125,000						125,000	125,000	
<b>Safety/ Security Total</b>			<b>125,000</b>						<b>125,000</b>	<b>125,000</b>	
Staffing Costs	5162101099	Engineering Services Staffing Costs - Wastewater	4,500,000					578,000	3,922,000	3,922,000	
<b>Staffing Costs Total</b>			<b>4,500,000</b>					<b>578,000</b>	<b>3,922,000</b>	<b>3,922,000</b>	
<b>Grand Total</b>			<b>169,020,253</b>	<b>-</b>	<b>4,000,000</b>	<b>39,240,530</b>	<b>12,677,585</b>	<b>7,318,000</b>	<b>105,784,138</b>	<b>73,784,138</b>	<b>32,000,000</b>

# WASTEWATER

**2022 – 2031  
Capital  
Budget List**

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**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start	End	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Year	Year	
Coordinated - Network Extension	5162180187	Garner Road Trunk Sanitary Sewer - Hwy 6 w/o Raymond - CASH FLOW	4,000,000	4,000,000	4,000,000	-	-	-	-	-	-	-	-	-	8,000,000	4,000,000	2021	2022	
	5162280280	Dewitt Road Sanitary Sewer - Barton to SSR	-	-	1,000,000	500,000	-	-	-	-	-	-	-	-	1,000,000	500,000	2022	2022	
	5162280281	Dickenson Road West Sanitary Sewer - Garth Street Extension to Upper James Street	-	-	2,670,000	-	-	-	-	-	-	-	-	-	2,670,000	-	2022	2022	
	5162280282	Fifty Road Trunk Sanitary Sewer	-	-	1,300,000	-	-	-	-	-	-	-	-	-	1,300,000	-	2022	2022	
	5162280284	Shaver Road Sanitary Sewer - Osprey to hydro corridor	-	-	600,000	-	-	-	-	-	-	-	-	-	600,000	-	2022	2022	
<b>Coordinated - Network Extension Total</b>			<b>4,000,000</b>	<b>4,000,000</b>	<b>9,570,000</b>	<b>500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13,570,000</b>	<b>4,500,000</b>			
Coordinated - Replacement	5162171015	Sewer Lateral Replacement for Co-ordinated Projects	354,000	354,000	600,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,454,000	5,354,000	2021	2046	
	5162171025	Dewitt - Highway 8 to Barton	600,000	600,000	1,040,000	1,040,000	-	-	-	-	-	-	-	-	1,640,000	1,640,000	2021	2022	
	5162271012	Strathearne - Main to Britannia - Sewer Laterals	-	-	170,000	170,000	-	-	-	-	-	-	-	-	170,000	170,000	2022	2022	
	5162271021	Westdale South Neighbourhood (Central)	-	-	30,000	30,000	-	-	-	-	-	-	-	-	30,000	30,000	2022	2022	
	5162271022	Burlington - James to Ferguson	-	-	440,000	200,000	-	-	-	-	-	-	-	-	440,000	200,000	2022	2022	
	5162271109	Scenic - Mohawk to Chateau	-	-	70,000	70,000	-	-	-	-	-	-	-	-	70,000	70,000	2022	2022	
	5162271214	Fairfield - Barton to Britannia	-	-	250,000	250,000	-	-	-	-	-	-	-	-	250,000	250,000	2022	2022	
	5162271296	Governor's - Main to Ogilvie (Bridge 296)	-	-	380,000	380,000	-	-	-	-	-	-	-	-	380,000	380,000	2022	2022	
	5162271303	Marion - Longwood to Dromore	-	-	180,000	180,000	-	-	-	-	-	-	-	-	180,000	180,000	2022	2022	
	5162271306	Kelvin - Old Orchard to south end	-	-	60,000	60,000	-	-	-	-	-	-	-	-	60,000	60,000	2022	2022	
	5162271308	Concession / Mountain Brow - Upper Gage to Oakcrest	-	-	150,000	150,000	-	-	-	-	-	-	-	-	150,000	150,000	2022	2022	
	5162272205	Glennmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	-	-	1,250,000	-	-	-	-	-	-	-	-	-	1,250,000	-	2022	2022	
	5162371307	Duke - Hess to west end & Robinson - Queen to west end	-	-	-	-	30,000	30,000	250,000	250,000	-	-	-	-	280,000	280,000	2023	2024	
	5162471202	Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	-	-	-	-	400,000	400,000	-	-	-	-	400,000	400,000	2024	2024	
	5162471304	Ferguson/Foster/Walnut/Patrick	-	-	-	-	-	-	110,000	110,000	-	-	-	-	110,000	110,000	2024	2024	
	5162471308	Scenic - Chateau Crt to Upper Paradise	-	-	-	-	-	-	1,070,000	1,070,000	-	-	-	-	1,070,000	1,070,000	2024	2024	
	5162571201	Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	-	-	-	-	-	400,000	400,000	-	-	400,000	400,000	2025	2025	
	5162772214	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	1,590,000	1,590,000	1,590,000	1,590,000	2027	2027	
	5162871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	750,000	750,000	750,000	750,000	2028	2028	
	5162871118	Charlton - Walnut to Sherman Access	-	-	-	-	-	-	-	-	-	-	120,000	120,000	120,000	120,000	2028	2028	
	5162871208	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	760,000	760,000	760,000	760,000	2028	2028	
	5162871311	Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	440,000	440,000	440,000	440,000	2028	2028	
	5162971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	20,000	20,000	20,000	20,000	2029	2029	
	5162971106	Wentworth - Barton to Burlington	-	-	-	-	-	-	-	-	-	-	250,000	250,000	250,000	250,000	2027	2027	
	5162971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	750,000	750,000	750,000	750,000	2029	2029	
	5162971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	75,000	75,000	75,000	75,000	2029	2029	
	5162971117	Green - Carla to Barton	-	-	-	-	-	-	-	-	-	-	100,000	100,000	100,000	100,000	2029	2029	
	5162971311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2029	2029	
	5163071308	Stipeley Neighbourhood (South) - Connaught / Balsam / Dunsmore	-	-	-	-	-	-	-	-	-	-	80,000	80,000	80,000	80,000	2030	2030	
	<b>Coordinated - Replacement Total</b>			<b>954,000</b>	<b>954,000</b>	<b>4,620,000</b>	<b>3,030,000</b>	<b>530,000</b>	<b>530,000</b>	<b>2,330,000</b>	<b>2,330,000</b>	<b>900,000</b>	<b>900,000</b>	<b>8,355,000</b>	<b>8,355,000</b>	<b>17,689,000</b>	<b>16,099,000</b>		
	Demolition / Disposal	5161767772	Decommissioning Aberdeen Sewage Pumping Station	10,000	10,000	-	-	-	-	-	-	110,000	110,000	1,190,000	1,190,000	1,310,000	1,310,000	2019	2026
		5162068851	Pier 25 Dredging - Windermere Basin	50,000	50,000	13,250,000	13,250,000	-	-	-	-	-	-	-	-	13,300,000	13,300,000	2018	2022
<b>Demolition / Disposal Total</b>			<b>60,000</b>	<b>60,000</b>	<b>13,250,000</b>	<b>13,250,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>110,000</b>	<b>110,000</b>	<b>1,190,000</b>	<b>1,190,000</b>	<b>14,610,000</b>	<b>14,610,000</b>			
Enhancement	5162241350	Pilot solar power installation at a Class B Hamilton Water facility	-	-	150,000	150,000	600,000	600,000	-	-	-	-	-	-	750,000	750,000	2022	2025	
	5162268757	Lower Chedoke Combined EA Study	-	-	280,000	-	1,650,000	-	1,100,000	-	2,100,000	2,100,000	2,100,000	2,100,000	7,230,000	4,200,000	2022	2026	
	5162268767	Chedoke Watershed Stormwater Retrofit EA Study	-	-	280,000	-	1,100,000	-	3,150,000	350,000	3,150,000	3,150,000	4,300,000	4,300,000	11,980,000	7,800,000	2022	2027	
<b>Enhancement Total</b>			<b>-</b>	<b>-</b>	<b>710,000</b>	<b>150,000</b>	<b>3,350,000</b>	<b>600,000</b>	<b>4,250,000</b>	<b>350,000</b>	<b>5,250,000</b>	<b>5,250,000</b>	<b>6,400,000</b>	<b>6,400,000</b>	<b>19,960,000</b>	<b>12,750,000</b>			
Expansion / Extension	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	3,500,000	-	4,500,000	-	4,500,000	-	5,700,000	-	5,700,000	-	289,274,000	-	313,174,000	-	2019	2028	
	5162196011	Intensification Infrastructure Upgrades Program - Wastewater	-	-	-	-	400,000	200,000	-	-	400,000	200,000	1,200,000	600,000	2,000,000	1,000,000	2023	2039	
	5162280283	370 Garner Road Pumping Station (AEGD)	-	-	3,500,000	-	-	-	-	-	-	-	-	-	3,500,000	-	2022	2022	
	5162380380	Millen Road Sanitary Sewer QEW crossing	-	-	-	-	1,125,000	-	-	-	-	-	-	-	1,125,000	-	2023	2023	
	5162696475	Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	-	-	-	-	-	-	22,500,000	22,500,000	22,500,000	22,500,000	2027	2029	
<b>Expansion / Extension Total</b>			<b>3,500,000</b>	<b>-</b>	<b>8,000,000</b>	<b>-</b>	<b>6,025,000</b>	<b>200,000</b>	<b>5,700,000</b>	<b>-</b>	<b>6,100,000</b>	<b>200,000</b>	<b>312,974,000</b>	<b>23,100,000</b>	<b>342,299,000</b>	<b>23,500,000</b>			
Feasibility Plans / EA's/ Studies	5161555264	City-Wide Wastewater Master Plan	950,000	680,000	280,000	-	-	-	-	-	-	-	550,000	-	1,780,000	680,000	2015	2028	
	5161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	20,000,000	(2,650,000)	-	-	-	-	18,000,000	-	-	-	-	-	38,000,000	(2,650,000)	2016	2024	
	5161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities	920,000	920,000	550,000	550,000	-	-	-	-	-	-	-	-	1,470,000	1,470,000	2018	2022	
	5162055800	Sewer Outfall Monitoring Study	-	-	500,000	500,000	-	-	1,000,000	1,000,000	-	-	-	-	1,500,000	1,500,000	2020	2024	

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start	End
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Year	Year
	5162095800	Flooding & Drainage Master Plan Capital Improvements	380,000	380,000	450,000	450,000	550,000	550,000	440,000	440,000	170,000	170,000	-	-	1,990,000	1,990,000	2021	2025
	5162149555	QA-QC Service Contract Program	-	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,500,000	1,500,000	2020	2046
	5162155010	Wastewater Systems Planning Program	-	-	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,000,000	6,000,000	2022	2046
	5162155022	Engineering Consultant Sewermain Projects	300,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,300,000	5,300,000	2021	2046
	5162155556	Mapping Update Program	96,000	96,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	496,000	496,000	2021	2046
	5162155878	Forcemain Condition Assessment Program	270,000	270,000	626,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	1,620,000	1,620,000	3,326,000	2,970,000	2021	2046
	5162155880	Inflow & Infiltration Studies and Flow Monitoring Program	450,000	450,000	-	-	820,000	410,000	820,000	410,000	280,000	140,000	1,680,000	840,000	4,050,000	2,250,000	2021	2046
	5162157545	Wastewater Computer Model Update & Maintenance	150,000	150,000	220,000	220,000	440,000	440,000	440,000	440,000	280,000	280,000	1,020,000	1,020,000	2,550,000	2,550,000	2021	2046
	5162167752	Wastewater Outstation Inspections - Asset Management Program	200,000	200,000	1,020,000	1,020,000	920,000	920,000	920,000	920,000	920,000	920,000	5,520,000	5,520,000	9,500,000	9,500,000	2021	2046
	5162168777	Chedoke Creek Water Quality Improvements (CASH FLOWED)	800,000	800,000	9,050,000	-	1,250,000	-	1,100,000	-	-	-	-	-	12,200,000	800,000	2021	2024
	5162255242	Combined Sewer Outfall Monitoring Study	-	-	600,000	600,000	200,000	71,470	-	-	-	-	-	-	800,000	671,470	2022	2023
	5162255800	Inflow & Infiltration Study for New Subdivisions	-	-	550,000	550,000	-	-	-	-	-	-	-	-	550,000	550,000	2022	2022
	5162257800	Wastewater Facility Asset Management Implementation Plan	-	-	100,000	100,000	280,000	280,000	110,000	110,000	-	-	-	-	490,000	490,000	2022	2024
	5162262305	Iona Avenue Sewer Improvements	-	-	330,000	330,000	-	-	-	-	-	-	-	-	330,000	330,000	2022	2022
	5162562543	CSO Characterization Program	-	-	170,000	170,000	170,000	170,000	170,000	170,000	600,000	600,000	1,020,000	1,020,000	2,130,000	2,130,000	2022	2031
	5163066151	2030 SCADA Master Plan	-	-	-	-	-	-	-	-	-	-	5,125,000	5,125,000	5,125,000	5,125,000	2029	2034
<b>Feasibility Plans / EA's/ Studies Total</b>			<b>24,516,000</b>	<b>1,596,000</b>	<b>15,736,000</b>	<b>6,050,000</b>	<b>6,190,000</b>	<b>4,401,470</b>	<b>24,560,000</b>	<b>5,050,000</b>	<b>3,810,000</b>	<b>3,670,000</b>	<b>24,275,000</b>	<b>22,885,000</b>	<b>99,087,000</b>	<b>43,652,470</b>		
<b>Licenses</b>	5162162073	Field Data Systems Program	170,000	170,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,270,000	1,270,000	2021	2046
<b>Licenses Total</b>			<b>170,000</b>	<b>170,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>660,000</b>	<b>660,000</b>	<b>1,270,000</b>	<b>1,270,000</b>		
<b>New</b>	5161667421	New Haulage Receiving Station	190,000	190,000	-	-	170,000	170,000	5,150,000	5,150,000	5,150,000	5,150,000	-	-	10,660,000	10,660,000	2016	2025
	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	46,000,000	(5,500,000)	20,300,000	-	11,300,000	-	-	-	-	-	-	-	77,600,000	(5,500,000)	2016	2023
	5162280285	Drop Structure Installation - Upper Centennial Trunk Sewer Manhole #10	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2022	2022
<b>New Total</b>			<b>46,190,000</b>	<b>(5,310,000)</b>	<b>20,800,000</b>	<b>500,000</b>	<b>11,470,000</b>	<b>170,000</b>	<b>5,150,000</b>	<b>5,150,000</b>	<b>5,150,000</b>	<b>5,150,000</b>	<b>-</b>	<b>-</b>	<b>88,760,000</b>	<b>5,660,000</b>		
<b>Rehabilitation / Renovation</b>	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	386,737,000	374,971,000	37,895,253	32,828,253	-	-	-	-	-	-	-	-	424,632,253	407,799,253	2008	2022
	5160966910	Woodward WWTP - Biosolids Management Facility	37,680,000	16,441,000	2,770,000	2,246,470	2,770,000	-	2,770,000	2,246,470	2,770,000	2,246,470	16,620,000	13,478,820	65,380,000	36,659,230	2009	2046
	5161266213	Dundas WWTP Improvements (CASH FLOWED)	2,770,000	2,770,000	-	-	1,650,000	1,650,000	-	-	9,150,000	9,150,000	14,700,000	14,700,000	28,270,000	28,270,000	2011	2027
	5161467756	Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	2,470,000	2,470,000	-	-	2,150,000	2,150,000	-	-	-	-	-	-	4,620,000	4,620,000	2014	2023
	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades	560,000	560,000	-	-	2,860,000	2,860,000	-	-	-	-	-	-	3,420,000	3,420,000	2016	2023
	5161966511	Woodward WWTP - Digester 3 & 5 (CASH FLOWED)	8,650,000	8,650,000	4,710,000	4,710,000	-	-	-	-	-	-	-	-	13,360,000	13,360,000	2019	2022
	5162067425	Hillside SPS (DC006) Upgrades	1,130,000	1,130,000	280,000	280,000	550,000	550,000	-	-	-	-	-	-	1,960,000	1,960,000	2020	2023
	5162111101	Road Cut Restoration Program	1,800,000	1,800,000	2,315,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	10,800,000	10,800,000	20,315,000	19,800,000	2021	2046
	5162160302	Emergency Repairs - Cross Connections Program	500,000	500,000	1,470,000	300,000	400,000	400,000	400,000	400,000	400,000	400,000	350,000	350,000	3,520,000	2,350,000	2021	2026
	5162160390	Wastewater System Lining Program	4,050,000	4,050,000	4,050,000	3,650,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	24,300,000	24,300,000	44,550,000	44,150,000	2021	2046
	5162160522	Sewer Lateral Management Program (WWC)	4,250,000	4,250,000	4,000,000	4,000,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	21,000,000	21,000,000	39,750,000	39,750,000	2021	2046
	5162160533	Trenchless Manhole Rehabilitation	70,000	70,000	250,000	180,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,570,000	2,500,000	2021	2046
	5162160574	Capital Programming Sewer Inspection & Assessment	500,000	500,000	1,150,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	4,200,000	4,200,000	7,950,000	7,500,000	2021	2046
	5162160575	Mainline Sewer Condition Assessment Program	1,140,000	1,140,000	2,030,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	6,840,000	6,840,000	13,430,000	12,540,000	2021	2046
	5162160576	Sewer Lateral Condition Assessment Program	540,000	540,000	790,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,370,000	2,370,000	4,450,000	3,910,000	2021	2046
	5162161444	Sewer Lateral Replace/Rehab Program	3,600,000	3,600,000	3,620,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	20,100,000	20,100,000	36,620,000	36,100,000	2021	2046
	5162166713	Wastewater Maintenance Capital Program	1,500,000	1,500,000	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	19,500,000	19,500,000	2021	2046
	5162166810	Woodward WWTP - Maintenance Building (CASH FLOWED)	500,000	500,000	500,000	500,000	-	-	-	-	-	-	-	-	1,000,000	1,000,000	2018	2022
	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	620,000	620,000	330,000	330,000	2,090,000	2,090,000	-	-	-	-	-	-	3,040,000	3,040,000	2021	2023
	5162167501	Odour Control Program & Media Replacement	150,000	150,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	1,150,000	1,150,000	2021	2022
	5162169075	City Environmental Lab Improvements Program	410,000	410,000	340,000	340,000	190,000	190,000	90,000	90,000	50,000	50,000	300,000	300,000	1,380,000	1,380,000	2021	2046
	5162261741	Resetting or Adjusting of Wastewater Utility Structures	-	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,500,000	2,500,000	2022	2046
	5162262250	Eastern Sewer Interceptor (ESI) - South Service - Fruitland to Green	-	-	8,000,000	4,932,415	-	-	-	-	-	-	-	-	8,000,000	4,932,415	2022	2022
	5162266011	Woodward WWTP - Secondary Digester	-	-	-	-	500,000	500,000	6,000,000	6,000,000	-	-	-	-	6,500,000	6,500,000	2022	2025
	5162266712	Wastewater Maintenance - Rebuild, Replacement and New Capital	1,500,000	1,500,000	600,000	600,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	1,800,000	4,800,000	4,800,000	2021	2046
	5162266911	Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)	-	-	3,450,000	3,450,000	-	-	5,900,000	5,900,000	5,900,000	5,900,000	-	-	15,250,000	15,250,000	2022	2025
	5162267375	Beach Boulevard (HC051) Wastewater Pump Station Upgrades	-	-	440,000	440,000	1,150,000	1,150,000	-	-	-	-	-	-	1,590,000	1,590,000	2022	2023
	5162267376	Rockcliffe (DC015) Wastewater Pumping Station Upgrades	-	-	990,000	990,000	3,350,000	3,350,000	-	-	-	-	-	-	4,340,000	4,340,000	2022	2023
	5162267585	Diesel Fuel Storage Compliance Upgrades	-	-	1,100,000	1,100,000	1,400											



**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start	End
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Year	Year
	5162360372	Large Sewer Lining - Blanshard St: Locke St to Poulette St	-	-	-	-	2,300,000	2,300,000	-	-	-	-	-	-	2,300,000	2,300,000	2023	2023
	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	-	-	1,100,000	1,100,000	930,000	930,000	12,955,000	12,955,000	12,955,000	12,955,000	-	-	27,940,000	27,940,000	2022	2026
	5162441226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	-	-	-	-	2,625,000	-	5,125,000	5,125,000	-	-	-	-	7,750,000	5,125,000	2023	2024
	5162461420	West 31st 400mm Forcemain Replacement & Rehabilitation	-	-	-	-	-	-	1,600,000	1,600,000	-	-	-	-	1,600,000	1,600,000	2024	2024
	5162466301	Woodward WWTP North Plant Rehabilitation (CASH FLOWED)	-	-	-	-	2,200,000	2,200,000	2,200,000	2,200,000	1,200,000	1,200,000	70,600,000	70,600,000	76,200,000	76,200,000	2023	2028
	5162560572	Large Sewer Lining: Upper James - Inverness to James St S	-	-	-	-	-	-	-	-	3,000,000	3,000,000	-	-	3,000,000	3,000,000	2025	2025
	5162560592	Strathearne - Barton to Brampton	-	-	-	-	-	-	-	-	7,280,000	7,280,000	-	-	7,280,000	7,280,000	2024	2025
	5162567751	Wastewater Outstation Upgrades - Asset Management Program	-	-	-	-	-	-	-	-	4,500,000	4,500,000	27,000,000	27,000,000	31,500,000	31,500,000	2024	2046
	5165522888	Mill St Bridge - Sanitary Sewer Erosion Protection	-	-	350,000	350,000	-	-	-	-	-	-	-	-	350,000	350,000	2022	2022
Rehabilitation / Renovation Total			461,127,000	428,122,000	83,780,253	70,567,138	46,955,000	41,560,000	54,380,000	53,856,470	64,545,000	64,021,470	235,980,000	232,838,820	946,767,253	890,965,898		
Relocation	5162255900	EA - McMaster Innovation Park (MIP) Storm Sewer Relocation	-	-	5,650,000	5,650,000	-	-	-	-	-	-	-	-	5,650,000	5,650,000	2022	2022
Relocation Total			-	-	5,650,000	5,650,000	-	-	-	-	-	-	-	-	5,650,000	5,650,000		
Replacement	5161966151	SCADA Maintenance Program	1,650,000	1,650,000	150,000	150,000	275,000	275,000	275,000	275,000	900,000	900,000	2,275,000	2,275,000	5,525,000	5,525,000	2019	2046
	5161968920	Fennell/Greenhill Drop Shaft	-	-	-	-	-	-	-	-	-	-	14,850,000	14,850,000	14,850,000	14,850,000	2019	2030
	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations	100,000	100,000	219,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	600,000	600,000	1,219,000	1,100,000	2021	2046
	5162160711	PW Capital Water Consumption Program	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,750,000	2,750,000	2021	2046
	5162160820	Open Cut Repairs for CIPP Program	560,000	500,000	620,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,680,000	5,500,000	2021	2046
	5162161740	Unscheduled Manhole and Sewermain Replacement Program	610,000	610,000	750,000	750,000	650,000	650,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	6,010,000	6,010,000	2021	2046
	5162171074	Contingency for Unscheduled Works Program	-	-	180,000	180,000	-	-	180,000	180,000	-	-	540,000	540,000	900,000	900,000	2022	2046
	5162367065	Replacement of the Eastport Sanitary Pumping Station	-	-	-	-	1,100,000	1,100,000	280,000	280,000	550,000	550,000	550,000	550,000	2,480,000	2,480,000	2023	2026
	5162418420	Grindstone Creek Utility Bridge	-	-	-	-	-	-	3,500,000	3,500,000	-	-	-	-	3,500,000	3,500,000	2024	2028
Replacement Total			3,170,000	3,110,000	2,169,000	1,930,000	2,875,000	2,875,000	5,585,000	5,585,000	2,800,000	2,800,000	26,315,000	26,315,000	42,914,000	42,615,000		
Safety/ Security	5162266351	Woodward SCADA OT (Operating Technology) Security Program	-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000	2022	2022
Safety/ Security Total			-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000		
Staffing Costs	5162101099	Engineering Services Staffing Costs - Wastewater	4,700,000	4,700,000	4,500,000	3,922,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,122,000	2021	2046
Staffing Costs Total			4,700,000	4,700,000	4,500,000	3,922,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,122,000		
Grand Total			548,387,000	437,402,000	169,020,253	105,784,138	82,005,000	54,946,470	106,565,000	76,931,470	93,275,000	86,711,470	643,149,000	348,743,820	1,642,401,253	1,110,519,368		

# WASTEWATER

## 2022 Capital Project Detail Sheets

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# Project Scenario Summary

## 5162180187 - Garner Road Trunk Sanitary Sewer - Hwy 6 w/o Raymond - CASH FLOW

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Network Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Growth			<b>Project Status</b>	Open

**Wards**  
**Description** Extension of subtrunk sanitary sewer on Garner Road West from Raymond Road to Hwy 6 to service existing abutting properties and to service Phase 1 AEGD lands.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Trunk Sewers >450mm	100%	8,000,000	4,000,000	4,000,000
		8,000,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48475 - Fr DC	-	2,520,000	-	-	-	-	-	-	-	-	-	2,520,000
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res	-	1,480,000	-	-	-	-	-	-	-	-	-	1,480,000
DC_Cap												
49004 - Debenture Proceeds Dev	2,520,000	-	-	-	-	-	-	-	-	-	-	-
Chgs - RE												
49005 - Debenture Proc Dev Chg	1,480,000	-	-	-	-	-	-	-	-	-	-	-
Non RES												
<b>Total Funding Source</b>	<b>4,000,000</b>	<b>4,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,000,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	4,000,000	4,000,000	-	-	-	-	-	-	-	-	-	4,000,000
<b>Total Expenditure</b>	<b>4,000,000</b>	<b>4,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,000,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162280280 - Dewitt Road Sanitary Sewer - Barton to SSR

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Network Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	Sanitary sewer upgrade to support infill growth.				
<b>Comments</b>					

### Expenditure By Asset Component

No data found for the selected parameters.

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
44024 - Other Recoveries	-	500,000	-	-	-	-	-	-	-	-	-	500,000
49300 - CORP CONT FRM CURR TO CAP	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	-	<b>1,000,000</b>	-	-	-	-	-	-	-	-	-	<b>1,000,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Expenditure</b>	-	<b>1,000,000</b>	-	-	-	-	-	-	-	-	-	<b>1,000,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162280281 - Dickenson Road West Sanitary Sewer - Garth Street Extension to Upper James Street

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Network Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	16.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	To construct a 750mm sanitary trunk sewer to support employment growth in the AEGD. Phase 1 - developer to install sanitary trunk as part of development approval. DC project MH10-S-19.				
<b>Comments</b>					

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Trunk Sewers >450mm	100%	2,670,000	-	2,670,000
		2,670,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49004 - Debenture Proceeds Dev Chgs - RE	-	1,682,100	-	-	-	-	-	-	-	-	-	1,682,100
49005 - Debenture Proc Dev Chg Non RES	-	987,900	-	-	-	-	-	-	-	-	-	987,900
<b>Total Funding Source</b>	-	<b>2,670,000</b>	-	-	-	-	-	-	-	-	-	<b>2,670,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	2,670,000	-	-	-	-	-	-	-	-	-	2,670,000
<b>Total Expenditure</b>	-	<b>2,670,000</b>	-	-	-	-	-	-	-	-	-	<b>2,670,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162280282 - Fifty Road Trunk Sanitary Sewer

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Network Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	16.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	Phase 1 - 675mm sanitary sewer extension on Fifty Road to Sonoma Lane. Developer to extend 675mm watermain under CNR from existing terminus ~220m to future intersection of Sonoma Lane at Fifty Road. DC Project SCL-17-S-19				

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Trunk Sewers >450mm	100%	1,300,000	-	1,300,000
		1,300,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49004 - Debenture Proceeds Dev Chgs - RE	-	819,000	-	-	-	-	-	-	-	-	-	819,000
49005 - Debenture Proc Dev Chg Non RES	-	481,000	-	-	-	-	-	-	-	-	-	481,000
<b>Total Funding Source</b>	-	1,300,000	-	-	-	-	-	-	-	-	-	1,300,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,300,000	-	-	-	-	-	-	-	-	-	1,300,000
<b>Total Expenditure</b>	-	1,300,000	-	-	-	-	-	-	-	-	-	1,300,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162280284 - Shaver Road Sanitary Sewer - Osprey to hydro corridor

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Network Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	16.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	375mm sanitary sewer extension on Shaver Road south of Osprey to support ongoing employment growth. Developer to extend 375mm watermain; expect local share contributions as an MA project. DC Project A21-S-19				

**Comments**

**Expenditure By Asset Component**

No data found for the selected parameters.

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49004 - Debenture Proceeds Dev Chgs - RE	-	378,000	-	-	-	-	-	-	-	-	-	378,000
49005 - Debenture Proc Dev Chg Non RES	-	222,000	-	-	-	-	-	-	-	-	-	222,000
<b>Total Funding Source</b>	-	<b>600,000</b>	-	-	-	-	-	-	-	-	-	<b>600,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Total Expenditure</b>	-	<b>600,000</b>	-	-	-	-	-	-	-	-	-	<b>600,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162171015 - Sewer Lateral Replacement for Co-ordinated Projects

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Replacement of sewer Laterals (private drains) from the mainline sewer to property line for co-ordinated capital road reconstruction projects.  
**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Sewer laterals - Local	100%	12,954,000	354,000	12,600,000
		12,954,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	100,000	-	-	-	-	-	-	-	-	-	100,000
49300 - CORP CONT FRM CURR TO CAP	354,000	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	<b>354,000</b>	<b>600,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>600,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	354,000	600,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,100,000
<b>Total Expenditure</b>	<b>354,000</b>	<b>600,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>5,100,000</b>
<b>Percent Increase</b>			(16.67%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

5162171025 - Dewitt - Highway 8 to Barton

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	51.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** The existing sanitary sewer has become deficient in capacity. Replacement of the sanitary sewer(s) including required manholes and connections are required to reduce the risk and liability associated with backup issues. Upgrade approx 375m of sanitary sewer as determined and requested by Growth Management. This project is to be coordinated with road reconstruction.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Trunk Sewers >450mm	100%	1,700,000	660,000	1,040,000
		1,700,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	660,000	1,040,000	-	-	-	-	-	-	-	-	-	1,040,000
<b>Total Funding Source</b>	<b>660,000</b>	<b>1,040,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,040,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	600,000	1,040,000	-	-	-	-	-	-	-	-	-	1,040,000
59225 - Design Engineering Overhead	60,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	<b>660,000</b>	<b>1,040,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,040,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162271012 - Strathearne - Main to Britannia - Sewer Laterals

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing sanitary service lines (public portion) have been found to be structurally and/or service deficient. Replacement is required to lessen inflow and infiltration as well as the risk and liability associated with sewer backup issues. This project is to be coordinated with capital road reconstruction projects. CPMS 11489

**Comments** Replacement of existing sanitary service lines and separation of "wye" connections.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Sewer laterals - Local	100%	170,000	-	170,000
		170,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	170,000	-	-	-	-	-	-	-	-	-	170,000
<b>Total Funding Source</b>	-	170,000	-	-	-	-	-	-	-	-	-	170,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	170,000	-	-	-	-	-	-	-	-	-	170,000
<b>Total Expenditure</b>	-	170,000	-	-	-	-	-	-	-	-	-	170,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5162271306 - Kelvin - Old Orchard to south end

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing sanitary service lines (public portion) have been found to be structurally and/or service deficient. Replacement is required to lessen inflow and infiltration as well as the risk and liability associated with sewer backup issues. This project is to be coordinated with capital road reconstruction and watermain replacement. CPMS 11501

**Comments** Replace existing sanitary sewer service lines and separate any shared "Wye" services.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	60,000	-	60,000
		60,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	60,000	-	-	-	-	-	-	-	-	-	60,000
<b>Total Funding Source</b>	-	60,000	-	-	-	-	-	-	-	-	-	60,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	60,000	-	-	-	-	-	-	-	-	-	60,000
<b>Total Expenditure</b>	-	60,000	-	-	-	-	-	-	-	-	-	60,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5162272205 - Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** The existing sanitary sewer has become structurally deficient. Replacement of to the sanitary sewer(s) including required manholes and connections are required to reduce the risk and liability associated with sewer collapse and backup issues. This project is to be coordinated with road reconstruction, watermain replacement and storm sewer installation. CPMS 11339

**Comments** Replacement of existing sanitary sewers, manholes and service lines along Willmar Court and Sleepy Hollow Court. Replacement of existing sanitary services along Underhill Ave and Glenmorris Dr.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	1,250,000	-	1,250,000
		1,250,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	1,250,000	-	-	-	-	-	-	-	-	-	1,250,000
<b>Total Funding Source</b>	-	1,250,000	-	-	-	-	-	-	-	-	-	1,250,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,250,000	-	-	-	-	-	-	-	-	-	1,250,000
<b>Total Expenditure</b>	-	1,250,000	-	-	-	-	-	-	-	-	-	1,250,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162271308 - Concession / Mountain Brow - Upper Gage to Oakcrest

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** The existing sanitary service lines (public portion) have been found to be structurally deficient. This project is to be coordinated with capital road reconstruction projects. CPMS 11271  
**Comments** Replacement is required to lessen inflow and infiltration as well as the risk and liability associated with sewer backup issues. Replacement of existing sanitary laterals along Concession St and Mountain Brow Blvd from Upper Gage Ave to Oak Crest Dr.

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Sewer laterals - Local	100%	150,000	-	150,000
		150,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Funding Source</b>	-	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Expenditure</b>	-	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162271021 - Westdale South Neighbourhood (Central)

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing sanitary main and service lines (public portion) have been found to be structurally and/or service deficient. This project is to be coordinated with capital road Resurfacing project (4031911021).

**Comments** Replacement of approx 2m of existing 300mm combined sewer and 2 sanitary service lines is required to lessen inflow and infiltration as well as the risk and liability associated with sewer backup issues.

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	30,000	-	30,000
		30,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	30,000	-	-	-	-	-	-	-	-	-	30,000
<b>Total Funding Source</b>	-	30,000	-	-	-	-	-	-	-	-	-	30,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	30,000	-	-	-	-	-	-	-	-	-	30,000
<b>Total Expenditure</b>	-	30,000	-	-	-	-	-	-	-	-	-	30,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162271296 - Governor's – Main to Ogilvie (Bridge 296)

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	79.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Rehabilitation of the sanitary trunk sewer supporting structure and pipe coating in coordination with bridge rehabilitation and watermain installation. The existing sanitary trunk structure support and exterior coating requires rehabilitation to restore structural integrity and corrosion resistance. CPMS 10660

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	380,000	-	380,000
		380,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	380,000	-	-	-	-	-	-	-	-	-	380,000
<b>Total Funding Source</b>	-	380,000	-	-	-	-	-	-	-	-	-	380,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	50,000	-	-	-	-	-	-	-	-	-	50,000
59212 - Construction	-	330,000	-	-	-	-	-	-	-	-	-	330,000
<b>Total Expenditure</b>	-	380,000	-	-	-	-	-	-	-	-	-	380,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5162271022 - Burlington - James to Ferguson

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	54.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** The existing sanitary service lines (public portion) have been found to be structurally deficient. Replacement is required to lessen inflow and infiltration as well as the risk and liability associated with sewer backup issues. This project is to be coordinated with capital road rehabilitation and watermain replacement projects. CPMS 10288  
**Comments** Replace existing sanitary sewer services along watermain replacement alignment as well as any services in shared trench with water service.

**Expenditure By Asset Component**

No data found for the selected parameters.

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	240,000	-	-	-	-	-	-	-	-	-	240,000
49300 - CORP CONT FRM CURR TO CAP	-	200,000	-	-	-	-	-	-	-	-	-	200,000
<b>Total Funding Source</b>	-	<b>440,000</b>	-	-	-	-	-	-	-	-	-	<b>440,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	440,000	-	-	-	-	-	-	-	-	-	440,000
<b>Total Expenditure</b>	-	<b>440,000</b>	-	-	-	-	-	-	-	-	-	<b>440,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

5162271109 - Scenic - Mohawk to Chateau

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	The existing sanitary service lines (public portion) have been found to be service deficient. Replacement is required to lessen inflow and infiltration as well as the risk and liability associated with sewer backup issues. This project is to be coordinated with the capital road reconstruction project. CPMS 11272				
<b>Comments</b>	Replacement of 15 sanitary laterals from sewer mainline to property line.				

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Sewer laterals - Local	100%	70,000	-	70,000
		70,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	70,000	-	-	-	-	-	-	-	-	-	70,000
<b>Total Funding Source</b>	-	70,000	-	-	-	-	-	-	-	-	-	70,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	70,000	-	-	-	-	-	-	-	-	-	70,000
<b>Total Expenditure</b>	-	70,000	-	-	-	-	-	-	-	-	-	70,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

5162271214 - Fairfield - Barton to Britannia

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing sanitary service lines (public portion) have been found to be structurally and service deficient. Replacement is required to lessen inflow and infiltration as well as the risk and liability associated with sewer backup issues. This project is to be coordinated with capital road reconstruction projects. CPMS 10727

**Comments** Replace all sewer service lines and catch basin leads from MH 'HN07E093' to MH 'HN08E095'.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Sewer laterals - Local	100%	250,000	-	250,000
		250,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Total Funding Source</b>	-	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Total Expenditure</b>	-	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5162271303 - Marion - Longwood to Dromore

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing sanitary service lines (public portion) have been found to be structurally and/or service deficient. Replacement is required to lessen inflow and infiltration as well as the risk and liability associated with sewer backup issues. This project is to be coordinated with watermain replacement and road reconstruction projects. CPMS 11403

**Comments** Replace existing sewer service laterals with PVC in coordinating with water and road work. Separate and services shared by "Wye" connection.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	180,000	-	180,000
		180,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Total Funding Source</b>	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Total Expenditure</b>	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162068851 - Pier 25 Dredging - Windermere Basin

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Demolition / Disposal	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	39.0
<b>Start Date</b>	2018-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2020
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** The City is required to dredge and dispose of sediment in Area B of Hamilton Harbour as per recommendations outlined in approved Council Report PW08055a and Amending Agreement with the Hamilton Port Authority. Sediment accumulation rates will be monitored by the Hamilton Port Authority to determine the timing of future dredging requirements.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	13,700,000	450,000	13,250,000
		13,700,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	450,000	13,250,000	-	-	-	-	-	-	-	-	-	13,250,000
<b>Total Funding Source</b>	<b>450,000</b>	<b>13,250,000</b>										<b>13,250,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	150,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	-	13,000,000	-	-	-	-	-	-	-	-	-	13,000,000
59225 - Design Engineering Overhead	250,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	50,000	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Total Expenditure</b>	<b>450,000</b>	<b>13,250,000</b>										<b>13,250,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162241350 - Pilot solar power installation at a Class B Hamilton Water facility

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Enhancement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	22.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2025-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** The objective is to construct a solar power installation at a Class B facility to reduce peak demand and increase Hamilton Water’s use of renewable energy.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Pumping Stations - Waste</b>	<b>100%</b>	<b>750,000</b>	<b>-</b>	<b>750,000</b>
		<b>750,000</b>		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
43526 - Provincial Contribution	-	-	-	-	-	-	-	-	-	-	-	-
48475 - Fr DC	-	-	-	-	-	-	-	-	-	-	-	-
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res DC_Cap	-	-	-	-	-	-	-	-	-	-	-	-
49002 - Debenture Proceeds	-	-	600,000	-	-	-	-	-	-	-	-	600,000
49300 - CORP CONT FRM CURR TO CAP	-	150,000	-	-	-	-	-	-	-	-	-	150,000
49412 - Contrib From Rsv	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>-</b>	<b>150,000</b>	<b>600,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>750,000</b>
<b>Percent Increase</b>			<b>300.00%</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	
<b>Expenditure</b>												
55801 - Consulting Services	-	150,000	-	-	-	-	-	-	-	-	-	150,000
56135 - Other Utilities	-	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	-	-	600,000	-	-	-	-	-	-	-	-	600,000
59225 - Design Engineering Overhead	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	<b>-</b>	<b>150,000</b>	<b>600,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>750,000</b>
<b>Percent Increase</b>			<b>300.00%</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162268757 - Lower Chedoke Combined EA Study

<b>Project Manager</b>	Cari Vanderperk	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Enhancement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	55.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2026-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** This study consists of a comprehensive review of the Lower Chedoke Creek to evaluate the benefits, impacts, and life cycle costs of the proposed projects and any other feasible solutions to develop a master plan for this system.

**Comments** Includes evaluating the RBG 25yr MP options like Aeration System (Major), Constructed Wetland and Stream Naturalization for Lower Chedoke Creek.

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Natural Open Space	100%	7,230,000	-	7,230,000
		7,230,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	-	-	-	-	-	-	-	-	-	-	-
49412 - Contrib From Rsve	-	280,000	1,650,000	1,100,000	-	-	-	-	-	-	-	3,030,000
<b>Total Funding Source</b>	-	280,000	1,650,000	1,100,000	-	-	-	-	-	-	-	3,030,000
<b>Percent Increase</b>			489.29%	(33.33%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	-	1,500,000	-	-	-	-	-	-	-	-	1,500,000
55801 - Consulting Services	-	250,000	-	-	-	-	-	-	-	-	-	250,000
59212 - Construction	-	-	-	1,000,000	2,000,000	2,000,000	-	-	-	-	-	5,000,000
59809 - Cap-Cur_Recovery_Oper Budget	-	30,000	150,000	100,000	100,000	100,000	-	-	-	-	-	480,000
<b>Total Expenditure</b>	-	280,000	1,650,000	1,100,000	2,100,000	2,100,000	-	-	-	-	-	7,230,000
<b>Percent Increase</b>			489.29%	(33.33%)	90.91%	0.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162268767 - Chedoke Watershed Stormwater Retrofit EA Study

<b>Project Manager</b>	Cari Vanderperk	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Enhancement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	55.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2027-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** This study consists of a comprehensive review of the feasibility and effectiveness of projects to treat stormwater generated in the Middle & Upper Chedoke Creek areas.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Natural Open Space	100%	11,980,000	-	11,980,000
		11,980,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	-	-	-	-	-	-	-	-	-	-	-
49412 - Contrib From Rsve	-	280,000	1,100,000	2,800,000	-	-	-	-	-	-	-	4,180,000
<b>Total Funding Source</b>	-	280,000	1,100,000	2,800,000	-	-	-	-	-	-	-	4,180,000
<b>Percent Increase</b>			292.86%	154.55%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	-	-	3,000,000	3,000,000	3,000,000	1,000,000	-	-	-	-	10,000,000
55801 - Consulting Services	-	250,000	-	-	-	-	-	-	-	-	-	250,000
59274 - Preliminary Design	-	-	1,000,000	-	-	-	-	-	-	-	-	1,000,000
59809 - Cap-Cur_Recovery_Oper Budget	-	30,000	100,000	150,000	150,000	150,000	150,000	-	-	-	-	730,000
<b>Total Expenditure</b>	-	280,000	1,100,000	3,150,000	3,150,000	3,150,000	1,150,000	-	-	-	-	11,980,000
<b>Percent Increase</b>			292.86%	186.36%	0.00%	0.00%	(63.49%)	(100.00%)	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5161966102 - Woodward WWTP - Expansion (CASH FLOWED)

<b>Project Manager</b>	John Helka	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Expansion / Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	68.0
<b>Start Date</b>	2019-01-01	<b>Completion Date</b>	2028-12-31	<b>Year Approved</b>	2019
<b>Investment Type</b>	Growth			<b>Project Status</b>	Open

**Wards**

**Description** As a result of the Water and Wastewater Master Plan, the Woodward Wastewater Treatment Plant Expansion is required to accommodate future growth demands. Tender for construction will be awarded in full and the expenditures are projected on a cash flow basis to accommodate the recommended financing strategy.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Treatment Plant	100%	314,674,000	5,000,000	309,674,000
		314,674,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48475 - Fr DC	990,000	-	-	-	-	-	-	-	-	-	-	-
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res DC_Cap	510,000	-	-	-	-	-	-	-	-	-	-	-
49004 - Debenture Proceeds Dev Chgs - RE	2,206,000	2,835,000	2,835,000	3,591,000	3,591,000	61,839,540	60,201,540	60,201,540	-	-	-	195,094,620
49005 - Debenture Proc Dev Chg Non RES	1,294,000	1,665,000	1,665,000	2,109,000	2,109,000	36,318,460	35,356,460	35,356,460	-	-	-	114,579,380
<b>Total Funding Source</b>	5,000,000	4,500,000	4,500,000	5,700,000	5,700,000	98,158,000	95,558,000	95,558,000	-	-	-	309,674,000
<b>Percent Increase</b>			0.00%	26.67%	0.00%	1,622.07%	(2.65%)	0.00%	(100.00%)	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	1,500,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	-	-	-	-	-	89,358,000	89,358,000	89,358,000	-	-	-	268,074,000
59225 - Design Engineering Overhead	3,500,000	4,300,000	4,300,000	5,500,000	5,500,000	8,600,000	6,000,000	6,000,000	-	-	-	40,200,000
59809 - Cap-Cur_Recovery_Oper Budget	-	200,000	200,000	200,000	200,000	200,000	200,000	200,000	-	-	-	1,400,000
<b>Total Expenditure</b>	5,000,000	4,500,000	4,500,000	5,700,000	5,700,000	98,158,000	95,558,000	95,558,000	-	-	-	309,674,000
<b>Percent Increase</b>			0.00%	26.67%	0.00%	1,622.07%	(2.65%)	0.00%	(100.00%)	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5162280283 - 370 Garner Road Pumping Station (AEGD)

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Expansion / Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	16.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Sanitary pumping station required in conjunction with extension of Garner Road sanitary trunk that supports employment land growth in AEGD. Sanitary pumping station to be constructed as part of 370 Garner Road industrial plan of subdivision. This pumping station is not in the DC but contemplated in the W/WW Master Plan over concerns of the ability of Calvin SPS to accommodate lands west of Hwy.6.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Pumping Stations - Waste	100%	3,500,000	-	3,500,000
		3,500,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48422 - Contributions from Developers	-	3,500,000	-	-	-	-	-	-	-	-	-	3,500,000
<b>Total Funding Source</b>	-	3,500,000	-	-	-	-	-	-	-	-	-	3,500,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	3,000,000	-	-	-	-	-	-	-	-	-	3,000,000
59259 - Land/Property Aquisition	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Expenditure</b>	-	3,500,000	-	-	-	-	-	-	-	-	-	3,500,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 516155264 - City-Wide Wastewater Master Plan

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	61.0
<b>Start Date</b>	2015-01-01	<b>Completion Date</b>	2028-12-31	<b>Year Approved</b>	2015
<b>Investment Type</b>	Growth			<b>Project Status</b>	Open

**Wards**

**Description** 10 year window on the Master Plan is expiring. Wastewater Systems Master Planning study to determine system needs for growth and performance. Coordinated with GRIDS 2.  
**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	1,780,000	950,000	830,000
		1,780,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48455 - Fr DC	170,000	176,400	-	-	-	-	-	346,500	-	-	-	522,900
Rsv_NCA_ResDevChge_Cap												
48456 - Fr DC Rsv_NCA_Non-Res_DC_Cap	100,000	103,600	-	-	-	-	-	203,500	-	-	-	307,100
49004 - Debenture Proceeds Dev Chgs - RE	62,000	-	-	-	-	-	-	-	-	-	-	-
49005 - Debenture Proc Dev Chg Non RES	28,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	590,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>950,000</b>	<b>280,000</b>	-	-	-	-	-	<b>550,000</b>	-	-	-	<b>830,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	100.00%	(100.00%)	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	750,000	250,000	-	-	-	-	-	500,000	-	-	-	750,000
59809 - Cap-Cur_Recovery_Oper Budget	200,000	30,000	-	-	-	-	-	50,000	-	-	-	80,000
<b>Total Expenditure</b>	<b>950,000</b>	<b>280,000</b>	-	-	-	-	-	<b>550,000</b>	-	-	-	<b>830,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	100.00%	(100.00%)	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5161855777 - Wastewater infrastructure Analysis - Growth and Economic Opportunities

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	61.0
<b>Start Date</b>	2018-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2018
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**

**Description** To undertake engineering analysis related to new transit infrastructure within growth areas or with economic opportunities and its impact on existing systems both upstream and downstream. This project will ensure the City's pipe capacities are met for current and future conditions.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	1,470,000	920,000	550,000
		1,470,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49214 - Third Party Billings	400,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	520,000	550,000	-	-	-	-	-	-	-	-	-	550,000
<b>Total Funding Source</b>	920,000	550,000	-	-	-	-	-	-	-	-	-	550,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	600,000	500,000	-	-	-	-	-	-	-	-	-	500,000
59809 - Cap-Cur_Recovery_Oper Budget	320,000	50,000	-	-	-	-	-	-	-	-	-	50,000
<b>Total Expenditure</b>	920,000	550,000	-	-	-	-	-	-	-	-	-	550,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162055800 - Sewer Outfall Monitoring Study

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	39.0
<b>Start Date</b>	2020-01-01	<b>Completion Date</b>	2024-12-31	<b>Year Approved</b>	2020
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**

**Description** To undertake an assessment of existing combined and sanitary sewer outfalls located with in the City and recommend suitable equipment necessary at each outfall for the purpose of continuous flow monitoring. Study scope will include recommended methodology for field data collection, data storage and data reporting, detailed design and implementation of study recommendations.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	2,150,000	650,000	1,500,000
		2,150,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	650,000	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	<b>650,000</b>	<b>500,000</b>	-	-	-	-	-	-	-	-	-	<b>500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	500,000	-	-	-	-	-	-	-	-	-	500,000
55801 - Consulting Services	650,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	-	-	-	1,000,000	-	-	-	-	-	-	-	1,000,000
<b>Total Expenditure</b>	<b>650,000</b>	<b>500,000</b>	-	<b>1,000,000</b>	-	-	-	-	-	-	-	<b>1,500,000</b>
<b>Percent Increase</b>			(100.00%)	100.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162095800 - Flooding & Drainage Master Plan Capital Improvements

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	50.0
<b>Start Date</b>	2020-01-01	<b>Completion Date</b>	2025-12-31	<b>Year Approved</b>	2020
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	Implementation of capital works and/or further analysis based on the recommendations in the City Wide Flooding and Drainage Master Plan. There is a complimentary Stormwater capital project submission (5182095800).				
<b>Comments</b>					

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	2,490,000	880,000	1,610,000
		2,490,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	880,000	450,000	-	-	-	-	-	-	-	-	-	450,000
<b>Total Funding Source</b>	<b>880,000</b>	<b>450,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>450,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	250,000	250,000	250,000	150,000	-	-	-	-	-	-	-	650,000
59212 - Construction	500,000	-	-	-	-	-	-	-	-	-	-	-
59225 - Design Engineering Overhead	50,000	150,000	250,000	250,000	150,000	-	-	-	-	-	-	800,000
59809 - Cap-Cur_Recovery_Oper Budget	80,000	50,000	50,000	40,000	20,000	-	-	-	-	-	-	160,000
<b>Total Expenditure</b>	<b>880,000</b>	<b>450,000</b>	<b>550,000</b>	<b>440,000</b>	<b>170,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,610,000</b>
<b>Percent Increase</b>			22.22%	(20.00%)	(61.36%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162149555 - QA-QC Service Contract Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	52.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Allocated funding to provide quality assurance and control for existing road rehabilitation and replacement contracts. Includes but not limited to: coupon testing, CCTV, soil resistivity and compaction.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	3,960,000	210,000	3,750,000
		3,960,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	60,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	150,000	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Funding Source</b>	210,000	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,500,000
59212 - Construction	210,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	210,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,500,000
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162155010 - Wastewater Systems Planning Program

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**

**Description** Master Plans, Servicing Studies and Environmental Assessments. On an as required basis along GRIDS identified Nodes and Corridors, and using City data/models, analyse wastewater system servicing capability (local street and district wide) for individual intensification development proposals and recommend upgrades required to accommodate. Undertake conceptual design for Master Plan projects. Service planning for new subdivisions, intensification areas and system performance. Includes field data systems.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	12,600,000	-	12,600,000
		12,600,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Total Funding Source</b>	-	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000
59809 - Cap-Cur_Recovery_Oper Budget	-	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000
<b>Total Expenditure</b>	-	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	6,000,000
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162155022 - Engineering Consultant Sewermain Projects

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	47.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** Various subsurface infrastructure condition assessment and trenchless rehabilitation engineering consulting services. Work includes but not limited to; Design of various infrastructure renewal and rehabilitation applications, technology and industry reviews of assessment and rehabilitation technologies, project management of subsurface projects, and development and application of technical review and audit of QA/QC procedures.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	12,800,000	300,000	12,500,000
		12,800,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	300,000	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	<b>300,000</b>	<b>500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	300,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000
<b>Total Expenditure</b>	<b>300,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>5,000,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5162155556 - Mapping Update Program

<b>Project Manager</b>	David Lamont	<b>Section</b>	Geomatics and Corridor Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	41.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Acquire updated air photos, update the City's Digital Terrain Model (DEM) and mapping of road edges, sidewalks, building footprints etc. This supports the study of Storm water issues, supports operating and capital programs, assists in land development reviews. Develop and Maintain Horizontal ( Lat / Long) and Vertical (Elevation) control networks across the City to allow correct data integration and alignment of ground based surveys with the City's mapping program.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	1,096,000	96,000	1,000,000
		1,096,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	40,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	56,000	40,000	-	-	-	-	-	-	-	-	-	40,000
<b>Total Funding Source</b>	<b>96,000</b>	<b>40,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>40,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	96,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	400,000
<b>Total Expenditure</b>	<b>96,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>400,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162155878 - Forcemain Condition Assessment Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	26.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** Detailed inspection of forcemain sewers to determine remaining life of the pipes. This will dictate management strategies, future needs, will help reduce the risk associated with major ruptures, and service outages. This project involves data collection through various technologies such as non-destructive acoustical testing, pipe sample laboratory testing, and project assignments to engineering consulting firms.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	7,376,000	270,000	7,106,000
		7,376,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	356,000	-	-	-	-	-	-	-	-	-	356,000
49300 - CORP CONT FRM CURR TO CAP	270,000	270,000	-	-	-	-	-	-	-	-	-	270,000
<b>Total Funding Source</b>	<b>270,000</b>	<b>626,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>626,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	270,000	626,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	3,056,000
<b>Total Expenditure</b>	<b>270,000</b>	<b>626,000</b>	<b>270,000</b>	<b>270,000</b>	<b>270,000</b>	<b>270,000</b>	<b>270,000</b>	<b>270,000</b>	<b>270,000</b>	<b>270,000</b>	<b>270,000</b>	<b>3,056,000</b>
<b>Percent Increase</b>			(56.87%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162157545 - Wastewater Computer Model Update & Maintenance

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** Development and refinement of wastewater systems computer model including scenario build, analysis, calibration, platform review and migration.  
**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	5,100,000	150,000	4,950,000
		5,100,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	4,980	220,000	-	-	-	-	-	-	-	-	-	220,000
49412 - Contrib From Rsve	145,020	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>150,000</b>	<b>220,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>220,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	130,000	180,000	400,000	400,000	250,000	150,000	150,000	150,000	150,000	150,000	150,000	2,130,000
59809 - Cap-Cur_Recovery_Oper Budget	20,000	40,000	40,000	40,000	30,000	20,000	20,000	20,000	20,000	20,000	20,000	270,000
<b>Total Expenditure</b>	<b>150,000</b>	<b>220,000</b>	<b>440,000</b>	<b>440,000</b>	<b>280,000</b>	<b>170,000</b>	<b>170,000</b>	<b>170,000</b>	<b>170,000</b>	<b>170,000</b>	<b>170,000</b>	<b>2,400,000</b>
<b>Percent Increase</b>			100.00%	0.00%	(36.36%)	(39.29%)	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162167752 - Wastewater Outstation Inspections - Asset Management Program

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** Condition Assessment of sequenced facilities on an annual basis as per recommendations of the Sustainable Asset Management Program to ensure sustainable operations.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Pumping Stations - Waste</b>	<b>100%</b>	<b>18,800,000</b>	<b>200,000</b>	<b>18,600,000</b>
		<b>18,800,000</b>		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	200,000	1,020,000	-	-	-	-	-	-	-	-	-	1,020,000
<b>Total Funding Source</b>	<b>200,000</b>	<b>1,020,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,020,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59225 - Design Engineering Overhead	180,000	900,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	8,100,000
59809 - Cap-Cur_Recovery_Oper Budget	20,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	1,200,000
<b>Total Expenditure</b>	<b>200,000</b>	<b>1,020,000</b>	<b>920,000</b>	<b>920,000</b>	<b>920,000</b>	<b>920,000</b>	<b>920,000</b>	<b>920,000</b>	<b>920,000</b>	<b>920,000</b>	<b>920,000</b>	<b>9,300,000</b>
<b>Percent Increase</b>			(9.80%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162168777 - Chedoke Creek Water Quality Improvements (CASH FLOWED)

<b>Project Manager</b>	Cari Vanderperk	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	59.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2024-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Implementation of further studies and/or capital works based on the recommendations of the Chedoke Creek Water Quality Improvement Study and the MECP Order for the Chedoke Creek discharge event.

Scope of work may include; further studies such as Class EAs, conceptual or detailed design of infrastructure improvements, development of field monitoring programs, capital works and documentation and targeted dredging to satisfy the MECP Order.

Tender for construction will be awarded in full and the expenditures are projected on a cash flow basis to accommodate the recommended financing strategy.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Inlet/Outfall structures	100%	12,450,000	1,050,000	11,400,000
		12,450,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	1,050,000	-	-	-	-	-	-	-	-	-	-	-
49412 - Contrib From Rsvs	-	9,050,000	1,250,000	1,100,000	-	-	-	-	-	-	-	11,400,000
<b>Total Funding Source</b>	<b>1,050,000</b>	<b>9,050,000</b>	<b>1,250,000</b>	<b>1,100,000</b>	-	-	-	-	-	-	-	<b>11,400,000</b>
<b>Percent Increase</b>			(86.19%)	(12.00%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	250,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	500,000	7,400,000	800,000	1,000,000	-	-	-	-	-	-	-	9,200,000
59225 - Design Engineering Overhead	200,000	1,550,000	350,000	-	-	-	-	-	-	-	-	1,900,000
59809 - Cap-Cur_Recovery_Oper Budget	100,000	100,000	100,000	100,000	-	-	-	-	-	-	-	300,000
<b>Total Expenditure</b>	<b>1,050,000</b>	<b>9,050,000</b>	<b>1,250,000</b>	<b>1,100,000</b>	-	-	-	-	-	-	-	<b>11,400,000</b>
<b>Percent Increase</b>			(86.19%)	(12.00%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162562543 - CSO Characterization Program

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	51.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2031-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	Regulatory annual CSO reporting. 5 year rotating CSO flow and quality characterization program.				
<b>Comments</b>					

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	2,130,000	-	2,130,000
		2,130,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	170,000	-	-	-	-	-	-	-	-	-	170,000
<b>Total Funding Source</b>	-	170,000	-	-	-	-	-	-	-	-	-	170,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	150,000	150,000	150,000	550,000	150,000	150,000	150,000	150,000	150,000	150,000	1,900,000
59809 - Cap-Cur_Recovery_Oper Budget	-	20,000	20,000	20,000	50,000	20,000	20,000	20,000	20,000	20,000	20,000	230,000
<b>Total Expenditure</b>	-	170,000	170,000	170,000	600,000	170,000	170,000	170,000	170,000	170,000	170,000	2,130,000
<b>Percent Increase</b>			0.00%	0.00%	252.94%	(71.67%)	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162255242 - Combined Sewer Outfall Monitoring Study

<b>Project Manager</b>	Nick Winters	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	15.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** To complete a pilot study to supply, install and monitor temporary flow monitoring equipment at combined sewer outfall. The scope of work includes but is not limited to a consultant pilot study for the supply, installation, monitoring and reporting for flow monitoring equipment at combined sewer outfall locations.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	800,000	-	800,000
		800,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	600,000	-	-	-	-	-	-	-	-	-	600,000
49412 - Contrib From Rsve	-	-	128,530	-	-	-	-	-	-	-	-	128,530
<b>Total Funding Source</b>	-	600,000	128,530	-	-	-	-	-	-	-	-	728,530
<b>Percent Increase</b>			(78.58%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	600,000	200,000	-	-	-	-	-	-	-	-	800,000
<b>Total Expenditure</b>	-	600,000	200,000	-	-	-	-	-	-	-	-	800,000
<b>Percent Increase</b>			(66.67%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162255800 - Inflow & Infiltration Study for New Subdivisions

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	17.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** A pilot wastewater system inflow & infiltration (I/I) study to investigate I/I rates in newly installed sewers in new subdivisions.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	550,000	-	550,000
		550,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	550,000	-	-	-	-	-	-	-	-	-	550,000
<b>Total Funding Source</b>	-	550,000	-	-	-	-	-	-	-	-	-	550,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	500,000	-	-	-	-	-	-	-	-	-	500,000
59809 - Cap-Cur_Recovery_Oper Budget	-	50,000	-	-	-	-	-	-	-	-	-	50,000
<b>Total Expenditure</b>	-	550,000	-	-	-	-	-	-	-	-	-	550,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.



# Project Scenario Summary

## 5162262305 - Iona Avenue Sewer Improvements

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	14.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Based on the recommendations of the Chedoke Creek Water Quality Improvement Study, this Environmental Assessment's objective is to assess and recommend a method to divert and/or separate creek flows from the combined sewer on Iona Avenue to remove volumetric pressure on downstream CSO tanks and to return additional creek baseflow to Chedoke Creek.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Combined Sewers <600 mm	100%	330,000	-	330,000
		330,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	330,000	-	-	-	-	-	-	-	-	-	330,000
<b>Total Funding Source</b>	-	330,000	-	-	-	-	-	-	-	-	-	330,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	300,000	-	-	-	-	-	-	-	-	-	300,000
59809 - Cap-Cur_Recovery_Oper Budget	-	30,000	-	-	-	-	-	-	-	-	-	30,000
<b>Total Expenditure</b>	-	330,000	-	-	-	-	-	-	-	-	-	330,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162257800 - Wastewater Facility Asset Management Implementation Plan

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	53.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2024-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** To support the various elements of the Wastewater Facility Asset Management program, external resources are required to deliver the 4-year implementation plan that commenced in 2021. The areas of external resourcing include support of the following initiatives: Risk Management Strategies, Lifecycle Solutions & Priorities, Costing Framework, Communication and Engagement. Review scope of work with Stakeholders; developed Terms of Reference (TOR) for a consultant(s) to assist with the implementation of the various elements of the Wastewater Facility Asset Management Plan.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	490,000	-	490,000
		490,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Total Funding Source</b>	-	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	90,000	250,000	100,000	-	-	-	-	-	-	-	440,000
59809 - Cap-Cur_Recovery_Oper Budget	-	10,000	30,000	10,000	-	-	-	-	-	-	-	50,000
<b>Total Expenditure</b>	-	100,000	280,000	110,000	-	-	-	-	-	-	-	490,000
<b>Percent Increase</b>			180.00%	(60.71%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162162073 - Field Data Systems Program

<b>Project Manager</b>	David Lamont	<b>Section</b>	Geomatics and Corridor Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Licenses	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	31.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** To maintain, upgrade and acquire data and information for various infrastructure management systems involved with the overall management of the stormwater collection network. (IPS; IRISS; ESRI, ProjectWise Connect, Scene Software – LiDAR and Bentley Suite Software)

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Computer Software	100%	2,920,000	170,000	2,750,000
		2,920,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	60,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	110,000	110,000	-	-	-	-	-	-	-	-	-	110,000
<b>Total Funding Source</b>	<b>170,000</b>	<b>110,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>110,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59271 - Other Capital Expenditures	170,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	1,100,000
<b>Total Expenditure</b>	<b>170,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>1,100,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5161696452 - Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)

<b>Project Manager</b>	Susan Jacob	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	New	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2016-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	2016
<b>Investment Type</b>	Growth			<b>Project Status</b>	Open

**Wards**

**Description** To provide external servicing to the airport lands as per Citywide Water/Wastewater Master Plan. 1200mm Gravity Sewer on Dickenson from Hwy 6 to Trinity Church and 1200mm Gravity Sewer on Golf Club Rd from Trinity Church to Upper Centennial Pkwy Rd (DC Study Projects IDs # HM20-S-14, HM21-S-14, HM22-S-14 & HM26-S-14). Tenders will be awarded in full and the expenditures are projected on a cash flow basis to accommodate the recommended financing strategy.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Trunk Sewers >450mm	100%	83,100,000	51,500,000	31,600,000
		83,100,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49004 - Debenture Proceeds Dev Chgs - RE	32,577,000	12,789,000	7,119,000	-	-	-	-	-	-	-	-	19,908,000
49005 - Debenture Proc Dev Chg Non RES	18,923,000	7,511,000	4,181,000	-	-	-	-	-	-	-	-	11,692,000
<b>Total Funding Source</b>	<b>51,500,000</b>	<b>20,300,000</b>	<b>11,300,000</b>	-	-	-	-	-	-	-	-	<b>31,600,000</b>
<b>Percent Increase</b>			(44.33%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	45,000,000	20,000,000	11,000,000	-	-	-	-	-	-	-	-	31,000,000
59225 - Design Engineering Overhead	5,500,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	1,000,000	300,000	300,000	-	-	-	-	-	-	-	-	600,000
<b>Total Expenditure</b>	<b>51,500,000</b>	<b>20,300,000</b>	<b>11,300,000</b>	-	-	-	-	-	-	-	-	<b>31,600,000</b>
<b>Percent Increase</b>			(44.33%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162280285 - Drop Structure Installation - Upper Centennial Trunk Sewer Manhole #10

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	New	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	55.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	New Vortex installation with in the Upper Centennial Trunk Sewer to support the 198 First Road West, 165 Upper Cenntennial Parkway and surrounding lands. To be installed by developer. Cost represents the City's share.				

**Comments**

**Expenditure By Asset Component**

No data found for the selected parameters.

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Expenditure</b>	-	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



<b>Expenditure</b>												
59212 - Construction	335,951,000	32,337,024	-	-	-	-	-	-	-	-	-	32,337,024
59225 - Design Engineering Overhead	44,791,000	4,059,302	-	-	-	-	-	-	-	-	-	4,059,302
59809 - Cap-Cur_Recovery_Oper Budget	5,995,000	1,498,927	-	-	-	-	-	-	-	-	-	1,498,927
<b>Total Expenditure</b>	<b>386,737,000</b>	<b>37,895,253</b>	-	-	-	-	-	-	-	-	-	<b>37,895,253</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

**Project Impact Forecast**

No data found for the selected parameters.





59809 - Cap-Cur_Recovery_Oper Budget	1,500,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,500,000
<b>Total Expenditure</b>	<b>41,270,000</b>	<b>2,770,000</b>	<b>2,770,000</b>	<b>2,770,000</b>	<b>2,770,000</b>	<b>2,770,000</b>	<b>2,770,000</b>	<b>2,770,000</b>	<b>2,770,000</b>	<b>2,770,000</b>	<b>2,770,000</b>	<b>27,700,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5161966511 - Woodward WWTP - Digester 3 & 5 (CASH FLOWED)

<b>Project Manager</b>	John Helka	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	78.0
<b>Start Date</b>	2019-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2019
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Clean sludge out of Digesters 3 and 5. Replacement of all Valve and Mixers in both digesters. Complete other repairs as necessary to put the digesters back in service.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Treatment Plant	100%	13,460,000	8,750,000	4,710,000
		13,460,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	8,750,000	4,710,000	-	-	-	-	-	-	-	-	-	4,710,000
<b>Total Funding Source</b>	<b>8,750,000</b>	<b>4,710,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,710,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	100,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	8,250,000	4,400,000	-	-	-	-	-	-	-	-	-	4,400,000
59225 - Design Engineering Overhead	400,000	310,000	-	-	-	-	-	-	-	-	-	310,000
<b>Total Expenditure</b>	<b>8,750,000</b>	<b>4,710,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,710,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162067425 - Hillside SPS (DC006) Upgrades

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	18.0
<b>Start Date</b>	2020-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	2020
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** Civil and Electrical upgrades required to improve operational efficiency and prolong the useful life of Wastewater Outstation at Hillside & Turnbull (DC006) as per recommendations of the Sustainable Asset Management program.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Pumping Stations - Waste</b>	<b>100%</b>	<b>2,210,000</b>	<b>1,380,000</b>	<b>830,000</b>
		<b>2,210,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	1,380,000	280,000	-	-	-	-	-	-	-	-	-	280,000
<b>Total Funding Source</b>	<b>1,380,000</b>	<b>280,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>280,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	250,000	-	-	-	-	-	-	-	-	-	250,000
59212 - Construction	1,000,000	-	500,000	-	-	-	-	-	-	-	-	500,000
59225 - Design Engineering Overhead	250,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	130,000	30,000	50,000	-	-	-	-	-	-	-	-	80,000
<b>Total Expenditure</b>	<b>1,380,000</b>	<b>280,000</b>	<b>550,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>830,000</b>
<b>Percent Increase</b>			96.43%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162366420 - Woodward WWTP - Primary Clarifiers (Galleries 1-8)

<b>Project Manager</b>	John Helka	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	53.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2026-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	2022 Tax Capital Budget				
<b>Comments</b>					

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Treatment Plant	100%	27,940,000	-	27,940,000
		27,940,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
42020 - Federal Gas Tax Revenue	-	-	-	-	-	-	-	-	-	-	-	-
43526 - Provincial Contribution	-	-	-	-	-	-	-	-	-	-	-	-
48475 - Fr DC	-	-	-	-	-	-	-	-	-	-	-	-
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res	-	-	-	-	-	-	-	-	-	-	-	-
DC_Cap												
49002 - Debenture Proceeds	-	-	-	12,955,000	12,955,000	-	-	-	-	-	-	25,910,000
49300 - CORP CONT FRM CURR TO CAP	-	1,100,000	-	-	-	-	-	-	-	-	-	1,100,000
49412 - Contrib From Rsve	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	-	1,100,000	-	12,955,000	12,955,000	-	-	-	-	-	-	27,010,000
<b>Percent Increase</b>			(100.00%)	100.00%	0.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	-	-	-	11,865,000	11,865,000	-	-	-	-	-	-	23,730,000
59225 - Design Engineering	-	1,000,000	840,000	840,000	840,000	-	-	-	-	-	-	3,520,000
Overhead												
59809 - Cap-Cur_Recovery_Oper Budget	-	100,000	90,000	250,000	250,000	-	-	-	-	-	-	690,000
<b>Total Expenditure</b>	-	1,100,000	930,000	12,955,000	12,955,000	-	-	-	-	-	-	27,940,000
<b>Percent Increase</b>			(15.45%)	1,293.01%	0.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

# Project Scenario Summary

## 5162111101 - Road Cut Restoration Program

<b>Project Manager</b>	David Lamont	<b>Section</b>	Geomatics and Corridor Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	83.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** Complete final restoration on public right-of-way due to damage caused by the repair or replacement of sewer assets (eg, sewermain break repair, manhole repair, sewer lateral replacement, etc)

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	47,315,000	1,800,000	45,515,000
		47,315,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	515,000	-	-	-	-	-	-	-	-	-	515,000
49300 - CORP CONT FRM CURR TO CAP	1,800,000	1,800,000	-	-	-	-	-	-	-	-	-	1,800,000
<b>Total Funding Source</b>	<b>1,800,000</b>	<b>2,315,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,315,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	1,800,000	2,190,000	1,675,000	1,675,000	1,675,000	1,675,000	1,675,000	1,675,000	1,675,000	1,675,000	1,675,000	17,265,000
59801 - Cap-Cur_Recovery_Sal,Wage,Ben	-	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	1,250,000
<b>Total Expenditure</b>	<b>1,800,000</b>	<b>2,315,000</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>1,800,000</b>	<b>18,515,000</b>
<b>Percent Increase</b>			(22.25%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162160302 - Emergency Repairs - Cross Connections Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	9.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2026-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** To repair sewer cross connections existing in the sewage collection system and that result in the discharge of sanitary waste into storm sewer systems. Cross connections exist as a result of improper sewer service connections to homes, illegal plumbing alterations in homes or through leakage through cracks and joints in sewers and sewer laterals. The repairs contemplated under this Cross Connection Program is the repair of improper sewer service connections to homes.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	3,520,000	500,000	3,020,000
		3,520,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	1,170,000	-	-	-	-	-	-	-	-	-	1,170,000
49300 - CORP CONT FRM CURR TO CAP	500,000	300,000	-	-	-	-	-	-	-	-	-	300,000
<b>Total Funding Source</b>	<b>500,000</b>	<b>1,470,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,470,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	500,000	1,470,000	400,000	400,000	400,000	350,000	-	-	-	-	-	3,020,000
<b>Total Expenditure</b>	<b>500,000</b>	<b>1,470,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>350,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,020,000</b>
<b>Percent Increase</b>			(72.79%)	0.00%	0.00%	(12.50%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162160390 - Wastewater System Lining Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** The existing combined and/or sanitary sewers have become structurally and service deficient. Rehabilitation is intended to decrease infiltration, improve hydraulics and restore structural integrity while reducing the risk and liability associated with sewer collapse and backup issues.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	105,300,000	4,050,000	101,250,000
		105,300,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	400,000	-	-	-	-	-	-	-	-	-	400,000
49300 - CORP CONT FRM CURR TO CAP	4,050,000	3,650,000	-	-	-	-	-	-	-	-	-	3,650,000
<b>Total Funding Source</b>	<b>4,050,000</b>	<b>4,050,000</b>	-	-	-	-	-	-	-	-	-	<b>4,050,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	40,500,000
<b>Total Expenditure</b>	<b>4,050,000</b>	<b>4,050,000</b>	<b>4,050,000</b>	<b>4,050,000</b>	<b>4,050,000</b>	<b>4,050,000</b>	<b>4,050,000</b>	<b>4,050,000</b>	<b>4,050,000</b>	<b>4,050,000</b>	<b>4,050,000</b>	<b>40,500,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162160522 - Sewer Lateral Management Program (WWC)

<b>Project Manager</b>	Nick Winters	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	9.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** To repair and rehabilitate sewer laterals in the road right of way as per the "Sewer Lateral Management Program" Approximately 420 public portion sewer laterals are replaced annually under the Sewer Lateral Management Program. This capital budget is for the full replacement of these public portion sewer laterals.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Sewer laterals - Local	100%	92,250,000	4,250,000	88,000,000
		92,250,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	4,250,000	4,000,000	-	-	-	-	-	-	-	-	-	4,000,000
<b>Total Funding Source</b>	<b>4,250,000</b>	<b>4,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,000,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	4,250,000	4,000,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	35,500,000
<b>Total Expenditure</b>	<b>4,250,000</b>	<b>4,000,000</b>	<b>3,500,000</b>	<b>3,500,000</b>	<b>3,500,000</b>	<b>3,500,000</b>	<b>3,500,000</b>	<b>3,500,000</b>	<b>3,500,000</b>	<b>3,500,000</b>	<b>3,500,000</b>	<b>35,500,000</b>
<b>Percent Increase</b>			(12.50%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5162160533 - Trenchless Manhole Rehabilitation

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Trenchless manhole rehabilitation coordinated with mainline CIPP (Cured in Place Pipe) rehabilitation program. Manhole rehabilitation is intended to reduce the risks associated with manhole collapse and manhole infiltration issues.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Manholes - Local	100%	6,320,000	70,000	6,250,000
		6,320,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	70,000	-	-	-	-	-	-	-	-	-	70,000
49300 - CORP CONT FRM CURR TO CAP	70,000	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Total Funding Source</b>	<b>70,000</b>	<b>250,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>250,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	70,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000
<b>Total Expenditure</b>	<b>70,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>2,500,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162160574 - Capital Programming Sewer Inspection & Assessment

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	76.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Condition assessment of mainline sewers to identify structural and service related issues (cross-connections, debris, blockages, etc.) prior to capital construction activities. Inspection of approx. 150,000 m of mainline sewers annually.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Trunk Sewers >450mm	100%	18,450,000	500,000	17,950,000
		18,450,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	450,000	-	-	-	-	-	-	-	-	-	450,000
49300 - CORP CONT FRM CURR TO CAP	500,000	700,000	-	-	-	-	-	-	-	-	-	700,000
<b>Total Funding Source</b>	<b>500,000</b>	<b>1,150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,150,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	500,000	1,150,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	7,450,000
<b>Total Expenditure</b>	<b>500,000</b>	<b>1,150,000</b>	<b>700,000</b>	<b>700,000</b>	<b>700,000</b>	<b>700,000</b>	<b>700,000</b>	<b>700,000</b>	<b>700,000</b>	<b>700,000</b>	<b>700,000</b>	<b>7,450,000</b>
<b>Percent Increase</b>			(39.13%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162160575 - Mainline Sewer Condition Assessment Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** Inspection and analysis of approximately 90,000 m of large and small diameter sewer mains throughout the city using various inspection methods. Work is prioritized by asset criticality, diameter, functionality and other service level identifiers. Co-ordinated with the capital roads program to provide structural and service conditions and to identify capital rehabilitation and replacement priorities. Assignments to engineering consulting firms and small urgent mainline repairs are also funded from this program.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Trunk Sewers >450mm	100%	30,530,000	1,140,000	29,390,000
		30,530,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	890,000	-	-	-	-	-	-	-	-	-	890,000
49300 - CORP CONT FRM CURR TO CAP	1,140,000	1,140,000	-	-	-	-	-	-	-	-	-	1,140,000
<b>Total Funding Source</b>	<b>1,140,000</b>	<b>2,030,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,030,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000
59212 - Construction	940,000	1,830,000	940,000	940,000	940,000	940,000	940,000	940,000	940,000	940,000	940,000	10,290,000
<b>Total Expenditure</b>	<b>1,140,000</b>	<b>2,030,000</b>	<b>1,140,000</b>	<b>1,140,000</b>	<b>1,140,000</b>	<b>1,140,000</b>	<b>1,140,000</b>	<b>1,140,000</b>	<b>1,140,000</b>	<b>1,140,000</b>	<b>1,140,000</b>	<b>12,290,000</b>
<b>Percent Increase</b>			(43.84%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162160576 - Sewer Lateral Condition Assessment Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Inspection and analysis approximately 100,000 m of sewer service lines by CCTV-from-mainline inspection method. Co-ordinated with the capital roads program to provide structural and service conditions and to identify capital rehabilitation and replacement priorities.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Sewer Laterals - Trunk	100%	12,550,000	540,000	12,010,000
		12,550,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	540,000	-	-	-	-	-	-	-	-	-	540,000
49300 - CORP CONT FRM CURR TO CAP	540,000	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Total Funding Source</b>	<b>540,000</b>	<b>790,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>790,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	540,000	790,000	250,000	250,000	250,000	250,000	250,000	250,000	540,000	540,000	540,000	3,910,000
<b>Total Expenditure</b>	<b>540,000</b>	<b>790,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>540,000</b>	<b>540,000</b>	<b>540,000</b>	<b>3,910,000</b>
<b>Percent Increase</b>			(68.35%)	0.00%	0.00%	0.00%	0.00%	0.00%	116.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162161444 - Sewer Lateral Replace/Rehab Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** Co-ordination of lateral rehabilitation and inspection in the public road allowance for laterals that are deteriorating and causing back-ups in homes. Rehabilitation through trenchless technologies of deteriorated laterals, reducing back-ups and extending the useful life.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Sewer Laterals - Trunk	100%	90,620,000	3,600,000	87,020,000
		90,620,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	520,000	-	-	-	-	-	-	-	-	-	520,000
49300 - CORP CONT FRM CURR TO CAP	3,600,000	3,100,000	-	-	-	-	-	-	-	-	-	3,100,000
<b>Total Funding Source</b>	<b>3,600,000</b>	<b>3,620,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,620,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	3,600,000	3,620,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,600,000	3,600,000	3,600,000	33,020,000
<b>Total Expenditure</b>	<b>3,600,000</b>	<b>3,620,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,600,000</b>	<b>3,600,000</b>	<b>3,600,000</b>	<b>33,020,000</b>
<b>Percent Increase</b>			(14.36%)	0.00%	0.00%	0.00%	0.00%	0.00%	16.13%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162169075 - City Environmental Lab Improvements Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	57.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** To upgrade / automate instrumentation required for monitoring and compliance testing of the City's drinking water.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	2,130,000	410,000	1,720,000
		2,130,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	410,000	340,000	-	-	-	-	-	-	-	-	-	340,000
<b>Total Funding Source</b>	<b>410,000</b>	<b>340,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>340,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	410,000	340,000	190,000	90,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	970,000
<b>Total Expenditure</b>	<b>410,000</b>	<b>340,000</b>	<b>190,000</b>	<b>90,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>970,000</b>
<b>Percent Increase</b>			(44.12%)	(52.63%)	(44.44%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162167501 - Odour Control Program & Media Replacement

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	50.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**  
**Description** Additional Woodward Wastewater Treatment Plant Odour Misting System. Preventative Maintenance Program Development, Media Replacements and Refurbishments for existing odour control systems.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Treatment Plant	100%	1,500,000	500,000	1,000,000
		1,500,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	500,000	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Funding Source</b>	500,000	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	350,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	150,000	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Expenditure</b>	500,000	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162167420 - DC007 McMaster Sewage Pumping Station Upgrades

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	18.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Architectural, Structural, Civil, Process Mechanical, Electrical and Instrumentation & Control / SCADA upgrades required to improve operational efficiency and prolong the useful life of Wastewater Outstation DC007 as per recommendations of the Sustainable Plant Asset Management program.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Pumping Stations - Waste</b>	<b>100%</b>	<b>3,190,000</b>	<b>770,000</b>	<b>2,420,000</b>
		<b>3,190,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	-	2,090,000	-	-	-	-	-	-	-	-	2,090,000
49300 - CORP CONT FRM CURR TO CAP	770,000	330,000	-	-	-	-	-	-	-	-	-	330,000
<b>Total Funding Source</b>	<b>770,000</b>	<b>330,000</b>	<b>2,090,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,420,000</b>
<b>Percent Increase</b>			<b>533.33%</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	
<b>Expenditure</b>												
55801 - Consulting Services	150,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	-	-	1,900,000	-	-	-	-	-	-	-	-	1,900,000
59225 - Design Engineering Overhead	550,000	300,000	-	-	-	-	-	-	-	-	-	300,000
59809 - Cap-Cur_Recovery_Oper Budget	70,000	30,000	190,000	-	-	-	-	-	-	-	-	220,000
<b>Total Expenditure</b>	<b>770,000</b>	<b>330,000</b>	<b>2,090,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,420,000</b>
<b>Percent Increase</b>			<b>533.33%</b>	<b>(100.00%)</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5162261741 - Resetting or Adjusting of Wastewater Utility Structures

<b>Project Manager</b>	Nick Winters	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	13.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** For the resetting of existing frames and covers of manholes and valve chambers as well as re-benching manholes, replacing manhole steps and parging voids in concrete manholes. The scope of Work includes but is not limited to the resetting or adjustment of existing wastewater utility structures such as manholes and valve chamber frame and covers, replacing manhole steps and parging voids in their associated concrete structures.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Maintenance holes - Local	100%	6,250,000	-	6,250,000
		6,250,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Total Funding Source</b>	-	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000
<b>Total Expenditure</b>	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162262250 - Eastern Sewer Interceptor (ESI) - South Service - Fruitland to Green

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	29.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing sanitary sewer has become structurally deficient. Rehabilitation is intended to restore structural integrity while reducing the risk and liability associated with sewer collapse and backup issues. CPMS 11630

**Comments** CIPP rehabilitation of existing sanitary interceptor sewer along South Service Rd. Fruitland Rd to Green Rd (SI03A011 - SF03A011).

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Interceptor sewers - Trunk	100%	8,000,000	-	8,000,000
		8,000,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	4,932,415	-	-	-	-	-	-	-	-	-	4,932,415
49412 - Contrib From Rsve	-	3,067,585	-	-	-	-	-	-	-	-	-	3,067,585
<b>Total Funding Source</b>	-	8,000,000	-	-	-	-	-	-	-	-	-	8,000,000
<b>Percent Increase</b>		(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	8,000,000	-	-	-	-	-	-	-	-	-	8,000,000
<b>Total Expenditure</b>	-	8,000,000	-	-	-	-	-	-	-	-	-	8,000,000
<b>Percent Increase</b>		(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162267375 - Beach Boulevard (HC051) Wastewater Pump Station Upgrades

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	18.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Upgrade the existing Wastewater Pumping station as outlined in the Asset Management Condition Assessment Report, RVA 2021. Review scope of work with Stakeholders; developed Terms of Reference (TOR) for a Request for Proposal (RFP); hire a consultant for design; issue tender for construction.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Pumping Stations - Waste	100%	1,590,000	-	1,590,000
		1,590,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	440,000	-	-	-	-	-	-	-	-	-	440,000
<b>Total Funding Source</b>	-	440,000	-	-	-	-	-	-	-	-	-	440,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	400,000	-	-	-	-	-	-	-	-	-	400,000
59212 - Construction	-	-	1,050,000	-	-	-	-	-	-	-	-	1,050,000
59809 - Cap-Cur_Recovery_Oper Budget	-	40,000	100,000	-	-	-	-	-	-	-	-	140,000
<b>Total Expenditure</b>	-	440,000	1,150,000	-	-	-	-	-	-	-	-	1,590,000
<b>Percent Increase</b>			161.36%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162267376 - Rockcliffe (DC015) Wastewater Pumping Station Upgrades

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	18.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Upgrade the existing Wastewater Pumping station as outlined in the Asset Management Condition Assessment Report, WSP 2021. Review scope of work with Stakeholders; developed Terms of Reference (TOR) for a Request for Proposal (RFP); hire a consultant for design; issue tender for construction.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Pumping Stations - Waste	100%	4,340,000	-	4,340,000
		4,340,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	-	3,350,000	-	-	-	-	-	-	-	-	3,350,000
49300 - CORP CONT FRM CURR TO CAP	-	990,000	-	-	-	-	-	-	-	-	-	990,000
<b>Total Funding Source</b>	-	990,000	3,350,000	-	-	-	-	-	-	-	-	4,340,000
<b>Percent Increase</b>			238.38%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	900,000	-	-	-	-	-	-	-	-	-	900,000
59212 - Construction	-	-	3,200,000	-	-	-	-	-	-	-	-	3,200,000
59809 - Cap-Cur_Recovery_Oper Budget	-	90,000	150,000	-	-	-	-	-	-	-	-	240,000
<b>Total Expenditure</b>	-	990,000	3,350,000	-	-	-	-	-	-	-	-	4,340,000
<b>Percent Increase</b>			238.38%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162266911 - Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)

<b>Project Manager</b>	John Helka	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	77.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2025-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Rehabilitation of the north digester complex including the four digester storage tanks and all the associated interconnecting buildings, Rehabilitation of structural, mechanical, electrical, and I&C elements are included in the scope of work. Preliminary scope of work is defined in a Condition Assessment report prepared by RVA (consultant) in 2021.

**Comments**

**Expenditure By Asset Component**

<b>Asset Components</b>	<b>Share</b>	<b>Total Budget</b>	<b>Previously Approved</b>	<b>Forecast Budget</b>
<b>Wastewater Treatment Plant</b>	<b>100%</b>	<b>15,250,000</b>	<b>-</b>	<b>15,250,000</b>
		<b>15,250,000</b>		

**Project Forecast**

<b>GL Account</b>	<b>Pre 2022</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>Total</b>
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	3,450,000	-	-	-	-	-	-	-	-	-	3,450,000
<b>Total Funding Source</b>	<b>-</b>	<b>3,450,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,450,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	3,300,000	-	-	-	-	-	-	-	-	-	3,300,000
59212 - Construction	-	-	-	5,750,000	5,750,000	-	-	-	-	-	-	11,500,000
59809 - Cap-Cur_Recovery_Oper Budget	-	150,000	-	150,000	150,000	-	-	-	-	-	-	450,000
<b>Total Expenditure</b>	<b>-</b>	<b>3,450,000</b>	<b>-</b>	<b>5,900,000</b>	<b>5,900,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,250,000</b>
<b>Percent Increase</b>			(100.00%)	100.00%	0.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162267585 - Diesel Fuel Storage Compliance Upgrades

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	48.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Bring 32 GenSets at Wastewater Facilities up to CSA code prior to expiry of TSSA Variance.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Pumping Stations - Waste</b>	<b>100%</b>	<b>2,500,000</b>	<b>-</b>	<b>2,500,000</b>
		<b>2,500,000</b>		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	1,100,000	-	-	-	-	-	-	-	-	-	1,100,000
<b>Total Funding Source</b>	<b>-</b>	<b>1,100,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,100,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	400,000	-	-	-	-	-	-	-	-	-	400,000
59212 - Construction	-	700,000	1,400,000	-	-	-	-	-	-	-	-	2,100,000
<b>Total Expenditure</b>	<b>-</b>	<b>1,100,000</b>	<b>1,400,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,500,000</b>
<b>Percent Increase</b>			27.27%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162166810 - Woodward WWTP - Maintenance Building (CASH FLOWED)

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	55.0
<b>Start Date</b>	2018-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Civil, Structural, Mechanical, Process and Electrical upgrades required to improve operational efficiency and prolong the useful life of the existing maintenance building. Tender for construction will be awarded in full and the expenditures are projected on a cash flow basis to accommodate the recommended financing strategy.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Treatment Plant	100%	1,000,000	500,000	500,000
		1,000,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	500,000	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	500,000	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	500,000	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Expenditure</b>	500,000	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162266712 - Wastewater Maintenance - Rebuild, Replacement and New Capital

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	63.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** This is an annual program to rebuild, replace or add equipment considered to be a tangible capital asset. This work would be completed as part of the maintenace program. This is for all wastewater and stormwater infrastructure maintained by the Plant Maintenance and Technical Services Section within Hamilton Water.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Treatment Plant	100%	9,300,000	1,500,000	7,800,000
		9,300,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	1,500,000	600,000	-	-	-	-	-	-	-	-	-	600,000
<b>Total Funding Source</b>	<b>1,500,000</b>	<b>600,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>600,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	1,500,000	600,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	3,300,000
<b>Total Expenditure</b>	<b>1,500,000</b>	<b>600,000</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>3,300,000</b>
<b>Percent Increase</b>			(50.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5165522888 - Mill St Bridge - Sanitary Sewer Erosion Protection

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	10.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Stream erosion has caused the sanitary sewer to become exposed. Conceptual design for remediation and provisional funds for EA studies.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	350,000	-	350,000
		350,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	350,000	-	-	-	-	-	-	-	-	-	350,000
<b>Total Funding Source</b>	-	350,000	-	-	-	-	-	-	-	-	-	350,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59274 - Preliminary Design	-	250,000	-	-	-	-	-	-	-	-	-	250,000
59809 - Cap-Cur_Recovery_Oper Budget	-	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Total Expenditure</b>	-	350,000	-	-	-	-	-	-	-	-	-	350,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162255900 - EA - McMaster Innovation Park (MIP) Storm Sewer Relocation

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Relocation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	16.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** A 2400mm trunk storm sewer currently traverses the full length of a building at 606 Aberdeen Ave. in MIP, which is proposed for redevelopment. A sewer condition survey identified that the pipe is reaching the end of its lifespan, and MIP has approached the City regarding the potential relocation of the sewer. A Schedule 'B' Class EA will be completed to develop and evaluate potential replacement and/or realignment alternatives, and complete the conceptual design of the preferred alternative.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Trunk Sewers >450mm	100%	5,650,000	-	5,650,000
		5,650,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	-	5,650,000	-	-	-	-	-	-	-	-	-	5,650,000
<b>Total Funding Source</b>	-	5,650,000	-	-	-	-	-	-	-	-	-	5,650,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	5,200,000	-	-	-	-	-	-	-	-	-	5,200,000
59274 - Preliminary Design	-	350,000	-	-	-	-	-	-	-	-	-	350,000
59809 - Cap-Cur_Recovery_Oper Budget	-	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Total Expenditure</b>	-	5,650,000	-	-	-	-	-	-	-	-	-	5,650,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5161966151 - SCADA Maintenance Program

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	51.0
<b>Start Date</b>	2019-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2019
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** To repair, replace, upgrade and maintain SCADA related equipment, parts, components and software to ensure system reliability and security.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Treatment Plant	100%	7,775,000	1,650,000	6,125,000
		7,775,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49002 - Debenture Proceeds	1,500,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	150,000	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Funding Source</b>	<b>1,650,000</b>	<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	-	125,000	-	-	125,000	-	-	-	-	-	250,000
59212 - Construction	1,650,000	150,000	150,000	275,000	900,000	150,000	1,400,000	150,000	150,000	150,000	150,000	3,625,000
<b>Total Expenditure</b>	<b>1,650,000</b>	<b>150,000</b>	<b>275,000</b>	<b>275,000</b>	<b>900,000</b>	<b>275,000</b>	<b>1,400,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>3,875,000</b>
<b>Percent Increase</b>			83.33%	0.00%	227.27%	(69.44%)	409.09%	(89.29%)	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162160577 - Mainline Sewer Condition Assessment for Compliance & Regulations

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	28.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Inspection, cleaning, and condition assessment of mainline sewers to support the Sewer Use By-law Compliance and Regulation Review and Approval process. CCTV inspection of various locations across the City as requested by Compliance and Regulations.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	2,719,000	100,000	2,619,000
		2,719,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	119,000	-	-	-	-	-	-	-	-	-	119,000
49300 - CORP CONT FRM CURR TO CAP	100,000	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Total Funding Source</b>	<b>100,000</b>	<b>219,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>219,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	100,000	219,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,119,000
<b>Total Expenditure</b>	<b>100,000</b>	<b>219,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>1,119,000</b>
<b>Percent Increase</b>			(54.34%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162160711 - PW Capital Water Consumption Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	25.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** Water consumption used for sewer relocation works on City contracts, during constructions i.e. flushing sewer lines, etc.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	6,500,000	250,000	6,250,000
		6,500,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	250,000	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Total Funding Source</b>	<b>250,000</b>	<b>250,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>250,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000
<b>Total Expenditure</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>2,500,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162160820 - Open Cut Repairs for CIPP Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**  
**Description** To open-cut repair sections of sewer in urgent need of repair in order to facilitate full-length CIPP sewer rehabilitation.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	13,180,000	560,000	12,620,000
		13,180,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	60,000	120,000	-	-	-	-	-	-	-	-	-	120,000
49300 - CORP CONT FRM CURR TO CAP	500,000	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	<b>560,000</b>	<b>620,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>620,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	560,000	620,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,120,000
<b>Total Expenditure</b>	<b>560,000</b>	<b>620,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>5,120,000</b>
<b>Percent Increase</b>			(19.35%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162161740 - Unscheduled Manhole and Sewermain Replacement Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	11.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** For the replacement of manholes and sewer mains as a result of failures in the system.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Maintenance holes - Local	100%	13,510,000	610,000	12,900,000
		13,510,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	610,000	750,000	-	-	-	-	-	-	-	-	-	750,000
<b>Total Funding Source</b>	<b>610,000</b>	<b>750,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>750,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	610,000	750,000	650,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,400,000
<b>Total Expenditure</b>	<b>610,000</b>	<b>750,000</b>	<b>650,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>5,400,000</b>
<b>Percent Increase</b>			(13.33%)	(23.08%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5162171074 - Contingency for Unscheduled Works Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	47.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** To allow for unscheduled works to be undertaken, minor improvements, land acquisition, capital system upgrades and emergency works.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Local Sewers < 450mm	100%	2,340,000	-	2,340,000
		2,340,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Total Funding Source</b>	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55916 - Contractual Services	-	180,000	-	180,000	-	180,000	-	180,000	-	180,000	-	900,000
<b>Total Expenditure</b>	-	180,000	-	180,000	-	180,000	-	180,000	-	180,000	-	900,000
<b>Percent Increase</b>			(100.00%)	100.00%	(100.00%)	100.00%	(100.00%)	100.00%	(100.00%)	100.00%	(100.00%)	

### Project Impact Forecast

No data found for the selected parameters.



# Project Scenario Summary

## 5162266351 - Woodward SCADA OT (Operating Technology) Security Program

<b>Project Manager</b>	Shane McCauley	<b>Section</b>	WasteWater - WasteWater	<b>Project Rank</b>	0.0
<b>Project Type</b>	Safety/ Security	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	57.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Program, will promote a risk-based approach to OT security and ensure that people, processes and technologies are in place to address gaps identified by the Cybersecurity Audit done at the end of 2020 by City auditor. For consultant service to look at putting a program in place and identified risk, cost and resources required to put in place and maintain SCADA\OT Cybersecurity system to meet the City requirements pertaining to cyber security .

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Treatment Plant	100%	125,000	-	125,000
		125,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	125,000	-	-	-	-	-	-	-	-	-	125,000
<b>Total Funding Source</b>	-	125,000	-	-	-	-	-	-	-	-	-	125,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	125,000	-	-	-	-	-	-	-	-	-	125,000
<b>Total Expenditure</b>	-	125,000	-	-	-	-	-	-	-	-	-	125,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5162101099 - Engineering Services Staffing Costs - Wastewater

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Staffing Costs	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	99.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** To fund Engineering Services staffing costs through capital for work on wastewater related capital projects, both in-year and future. In the past, these charges were built into in-year approved capital projects on a pro-rated basis. In order to provide more transparency and capture staffing costs for future works in a more accurate way, these staffing costs are now reflected in this project and removed from all other individual Engineering Services projects.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Wastewater Other	100%	117,200,000	4,700,000	112,500,000
		117,200,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	578,000	-	-	-	-	-	-	-	-	-	578,000
49300 - CORP CONT FRM CURR TO CAP	4,700,000	3,922,000	-	-	-	-	-	-	-	-	-	3,922,000
<b>Total Funding Source</b>	<b>4,700,000</b>	<b>4,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59809 - Cap-Cur_Recovery_Oper Budget	4,700,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	45,000,000
<b>Total Expenditure</b>	<b>4,700,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>4,500,000</b>	<b>45,000,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# STORM

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# STORM

## 2022 Funding By Source

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**City of Hamilton**  
**Storm Water Management**  
**2022 Capital Budget Project List**  
**(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5182271328	Southcote - Garner to Highway 403 Bridge	1,500,000						-	1,500,000	
Coordinated - Network Extension Total			1,500,000						-	1,500,000	
Coordinated - Replacement	5182172205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,880,000				1,880,000		-	-	
	5182271226	Mud St (Phase 02) - Isaac Brock Dr to Upper Centennial Pkwy	180,000						-	180,000	
	5182271312	Streathearne - Main to Britannia	1,000,000						-	1,000,000	
Coordinated - Replacement Total			3,060,000				1,880,000		-	1,180,000	
Enhancement	5181823155	South St E and East St S in Dundas Drainage Improvement - SERG	110,000						-	110,000	
	5181872295	SERG - Winona Area Drainage Improvements	440,000						-	440,000	
	5181967500	DMAF- CSO Backflow Preventors	390,000						-	390,000	
	5182255688	EA for Rosedale Stormwater Management Facility - Outlet to Red Hill Creek	450,000						-	450,000	
Enhancement Total			1,390,000						-	1,390,000	
Expansion / Extension	5182280290	SWMP SL12 Block 3 (1090 Barton Street)	10,330,000			10,330,000			-		
	5182280291	SWMP SM21 Nash 2/3 Development	4,745,000			4,745,000			-		
	5182280292	SWMP SM17 198 Highland Road West	4,085,000			4,085,000			-		
Expansion / Extension Total			19,160,000			19,160,000			-		
Feasibility Plans / EA's/ Studies	5182095800	Flooding & Drainage Master Plan Capital Improvements	450,000						-	450,000	
	5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services	250,000						-	250,000	
	5182149555	QA-QC Service Contract Program	150,000						-	150,000	
	5182155421	Stormwater System Planning Program	380,000						-	380,000	
	5182155556	Mapping Update Program	40,000						-	40,000	
	5182174951	Shoreline Protection Program	150,000						-	150,000	
	5182174680	Storm Sewer Network Planning - Transportation Program	260,000						-	260,000	
	5182255210	Storm Water Outfall Investigations	300,000						-	300,000	
Feasibility Plans / EA's/ Studies Total			1,980,000						-	1,980,000	
Licenses	5182162073	Field Data Systems Program	110,000						-	110,000	
Licenses Total			110,000						-	110,000	
Rehabilitation / Renovation	5181767723	Grafton and Centennial Stormwater Pumping Stations - Standby Power	450,000						-	450,000	
	5182117152	Right of Way Drainage Program	1,500,000				1,500,000		-	-	
	5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.	500,000					500,000	-	-	
	5182160533	Trenchless Manhole Rehabilitation	70,000						-	70,000	
	5182160622	SWM Facility Maintenance Program	1,500,000				220,000		-	1,280,000	
	5182160722	Municipal Drain Program	100,000		75,000				-	25,000	
	5182274950	Watercourse and Drainage Channel Maintenance	1,445,000					545,000	-	900,000	
Rehabilitation / Renovation Total			5,565,000		75,000		1,720,000	1,045,000	-	2,725,000	
Replacement	5182017040	Highway 97 - Culvert Improvement Project	300,000						-	300,000	
	5182117458	Catch Basin Replacement/Rehabilitation Program	1,000,000					500,000	-	500,000	
	5182161740	Unscheduled Manhole and Sewermain Replacement Program	50,000						-	50,000	
	5182172074	Contingency for Unscheduled Works Program	180,000						-	180,000	
	5182260220	Culvert FLA-3008 - Old Brock Rd 100m w/o Brock	150,000						-	150,000	
Replacement Total			1,680,000					500,000	-	1,180,000	
Staffing Costs	5182101099	Engineering Services Staffing Costs - Storm	1,700,000						-	1,700,000	
Staffing Costs Total			1,700,000						-	1,700,000	
<b>Grand Total</b>			<b>36,145,000</b>		<b>75,000</b>	<b>19,160,000</b>	<b>3,600,000</b>	<b>1,545,000</b>	<b>-</b>	<b>11,765,000</b>	

# STORM

## 2022 – 2031 Capital Budget List

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**CITY OF HAMILTON**  
**STORM WATER MANAGEMENT**  
**2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start	End
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Year	Year
Coordinated - Network Extension	5182271328	Southcote - Garner to Highway 403 Bridge	-	-	1,500,000	1,500,000	-	-	-	-	-	-	-	-	1,500,000	1,500,000	2022	2022
	5182372021	Highland Rd W - First Rd W to Upper Centennial	-	-	-	-	1,600,000	1,600,000	-	-	-	-	-	-	1,600,000	1,600,000	2023	2023
	5182871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	2,500,000	2,500,000	2,500,000	2,500,000	2028	2028
	5182971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	1,250,000	1,250,000	1,250,000	1,250,000	2029	2029
	5182971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	650,000	650,000	650,000	650,000	2029	2029
	5183180086	Parkside Dr Urbanization - Phase 2 - Storm Sewer	-	-	-	-	-	-	-	-	-	-	1,100,000	440,000	1,100,000	440,000	2022	2031
<b>Coordinated - Network Extension Total</b>			-	-	1,500,000	1,500,000	1,600,000	1,600,000	-	-	-	-	5,500,000	4,840,000	8,600,000	7,940,000		
Coordinated - Replacement	5182172205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	-	-	1,880,000	-	-	-	-	-	-	-	-	-	1,880,000	-	2021	2022
	5182271228	Mud St (Phase 02) - Isaac Brock Dr to Upper Centennial Pkwy	-	-	180,000	180,000	-	-	-	-	-	-	-	-	180,000	180,000	2022	2022
	5182271312	Streathearne - Main to Britannia	-	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	1,000,000	1,000,000	2022	2022
	5182372304	Hatt & Bond - King to Market	-	-	-	-	2,100,000	2,100,000	-	-	-	-	-	-	2,100,000	2,100,000	2023	2023
	5182772021	Industrial - Ottawa to Gage / Gage / Depew	-	-	-	-	-	-	-	-	-	-	400,000	400,000	400,000	400,000	2027	2027
	5182772214	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	3,190,000	3,190,000	3,190,000	3,190,000	2027	2027
	5182872208	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	700,000	700,000	700,000	700,000	2028	2028
	5182971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	1,200,000	1,200,000	1,200,000	1,200,000	2029	2029
	5182972311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	130,000	130,000	130,000	130,000	2029	2029
	5183072298	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	-	-	-	-	-	-	-	-	-	-	850,000	850,000	850,000	850,000	2030	2030
<b>Coordinated - Replacement Total</b>			-	-	3,060,000	1,180,000	2,100,000	2,100,000	-	-	-	-	6,470,000	6,470,000	11,630,000	9,750,000		
Coordinated - Upgrade	5183072293	Hughson - Wilson to Barton	-	-	-	-	-	-	-	-	-	-	280,000	280,000	280,000	280,000	2030	2030
<b>Coordinated - Upgrade Total</b>			-	-	-	-	-	-	-	-	-	-	280,000	280,000	280,000	280,000		
Enhancement	5181562590	SWMP Retrofits	460,000	460,000	-	-	660,000	660,000	-	-	-	-	-	-	1,120,000	1,120,000	2015	2023
	5181823155	South St E and East St S in Dundas Drainage Improvement - SERG	30,000	30,000	110,000	110,000	-	-	1,100,000	1,100,000	-	-	-	-	1,240,000	1,240,000	2018	2024
	5181872295	SERG - Winona Area Drainage Improvements	470,000	470,000	440,000	440,000	-	-	-	-	-	-	1,270,000	1,270,000	2,180,000	2,180,000	2018	2028
	5181967500	DMAF- CSO Backflow Preventors	1,050,000	1,050,000	390,000	390,000	2,250,000	2,250,000	-	-	-	-	-	-	3,690,000	3,690,000	2019	2023
	5182255688	EA for Rosedale Stormwater Management Facility - Outlet to Red Hill Creek	-	-	450,000	450,000	-	-	-	-	-	-	-	-	450,000	450,000	2022	2022
	5182696475	Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	-	-	-	-	-	-	67,500,000	67,500,000	67,500,000	67,500,000	2021	2029
<b>Enhancement Total</b>			2,010,000	2,010,000	1,390,000	1,390,000	2,910,000	2,910,000	1,100,000	1,100,000	-	-	68,770,000	68,770,000	76,180,000	76,180,000		
Expansion / Extension	5182280290	SWMP SL12 Block 3 (1090 Barton Street)	-	-	10,330,000	-	-	-	-	-	-	-	-	-	10,330,000	-	2022	2022
	5182280291	SWMP SM21 Nash 2/3 Development	-	-	-	-	-	-	-	-	-	-	-	-	4,745,000	-	2022	2022
	5182280292	SWMP SM17 198 Highland Road West	-	-	4,085,000	-	-	-	-	-	-	-	-	-	4,085,000	-	2022	2022
<b>Expansion / Extension Total</b>			-	-	19,160,000	-	-	-	-	-	-	-	-	-	19,160,000	-		
Feasibility Plans / EA's/ Studies	5182095800	Flooding & Drainage Master Plan Capital Improvements	380,000	380,000	450,000	450,000	550,000	550,000	440,000	440,000	170,000	170,000	-	-	1,990,000	1,990,000	2020	2025
	5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,750,000	2,750,000	2021	2046
	5182149555	QA-QC Service Contract Program	-	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,500,000	1,500,000	2021	2046
	5182155347	Watercourse Erosion Sites Rehabilitation and Mitigation	280,000	280,000	-	-	280,000	280,000	280,000	280,000	3,000,000	3,000,000	6,720,000	6,720,000	10,560,000	10,560,000	2021	2035
	5182155421	Stormwater System Planning Program	-	-	380,000	380,000	380,000	380,000	380,000	380,000	380,000	380,000	2,280,000	2,280,000	3,800,000	3,800,000	2022	2046
	5182155556	Mapping Update Program	97,000	97,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	497,000	497,000	2021	2046
	5182157545	Stormwater Computer Model	-	-	-	-	1,080,000	1,080,000	1,080,000	1,080,000	60,000	60,000	1,680,000	1,680,000	3,900,000	3,900,000	2023	2046
	5182167751	Stormwater Infrastructure Criticality Assessment	280,000	280,000	-	-	280,000	280,000	280,000	280,000	280,000	280,000	1,680,000	1,680,000	2,800,000	2,800,000	2021	2046
	5182174680	Storm Sewer Network Planning - Transportation Program	660,000	660,000	260,000	260,000	660,000	660,000	660,000	660,000	660,000	660,000	3,960,000	3,960,000	6,860,000	6,860,000	2021	2046
	5182174840	Stormwater Analysis for Bridge, Culvert and Ditch Replacement Projects	500,000	500,000	-	-	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,000,000	5,000,000	2021	2046
	5182174951	Shoreline Protection Program	1,320,000	1,320,000	150,000	150,000	400,000	400,000	750,000	750,000	150,000	150,000	2,600,000	2,600,000	5,370,000	5,370,000	2021	2046
	5182255210	Storm Water Outfall Investigations	-	-	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	1,800,000	3,000,000	3,000,000	2022	2046
	5182355075	Watershed Project Coordination and Stewardship Action Plans	-	-	-	-	-	-	170,000	170,000	170,000	170,000	1,020,000	1,020,000	1,360,000	1,360,000	2024	2046
5182455422	Stormwater Master Plan	-	-	-	-	-	-	1,100,000	220,000	-	-	1,100,000	220,000	2,200,000	440,000	2024	2029	
<b>Feasibility Plans / EA's/ Studies Total</b>			3,767,000	3,767,000	1,980,000	1,980,000	4,870,000	4,870,000	6,380,000	5,500,000	6,110,000	6,110,000	28,480,000	27,600,000	51,587,000	49,827,000		
Licenses	5182162073	Field Data Systems Program	164,000	164,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,264,000	1,264,000	2021	2046
<b>Licenses Total</b>			164,000	164,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,264,000	1,264,000		
New	5182067875	Beach Strip Stormwater Pumping Stations (CASH FLOWED)	30,000	30,000	-	-	1,795,000	1,795,000	7,100,000	7,100,000	7,080,000	7,080,000	-	-	16,005,000	16,005,000	2020	2025
	5182180090	Storm Water Management Program	4,000,000	-	-	-	4,000,000	-	4,000,000	-	4,000,000	-	24,000,000	-	40,000,000	-	2021	2046

**CITY OF HAMILTON  
STORM WATER MANAGEMENT  
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5182323875	Beach Strip Stormwater Collection System Improvements	-	-	-	-	150,000	150,000	500,000	500,000	-	-	2,350,000	2,350,000	3,000,000	3,000,000	2022	2032
	5182380390	SWMP A14 Springbrook Corners	-	-	-	-	1,290,000	-	-	-	-	-	-	-	1,290,000	-	2023	2023
	5182380391	SWMP SL3 Block 2 (844 Barton Street)	-	-	-	-	3,320,000	-	-	-	-	-	-	-	3,320,000	-	2023	2023
	5182380864	SWMP W6 Waterdown Bay (Saleem Property )	-	-	-	-	1,565,000	-	-	-	-	-	-	-	1,565,000	-	2023	2023
	5182460214	SERG - Parkside & Kipling Stormwater Facility - CASH FLOW	-	-	-	-	-	-	6,100,000	6,100,000	-	-	6,510,000	6,510,000	12,610,000	12,610,000	2023	2038
	5182480490	SWMP H28 305 Stone Church Road West	-	-	-	-	-	-	5,175,000	-	-	-	-	-	5,175,000	-	2024	2024
<b>New Total</b>			<b>4,030,000</b>	<b>30,000</b>	<b>-</b>	<b>-</b>	<b>12,120,000</b>	<b>1,945,000</b>	<b>22,875,000</b>	<b>13,700,000</b>	<b>11,080,000</b>	<b>7,080,000</b>	<b>32,860,000</b>	<b>8,860,000</b>	<b>82,965,000</b>	<b>31,615,000</b>		
Rehabilitation / Renovation	5181767723	Grafton and Centennial Stormwater Pumping Stations - Standby Power	1,700,000	1,700,000	450,000	450,000	-	-	-	-	-	-	50,000	50,000	2,200,000	2,200,000	2017	2026
	5182117152	Right of Way Drainage Program	1,500,000	1,500,000	1,500,000	-	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	9,000,000	9,000,000	16,500,000	15,000,000	2021	2046
	5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.	250,000	250,000	500,000	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	3,000,000	2,500,000	2021	2046
	5182160533	Trenchless Manhole Rehabilitation	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	420,000	420,000	770,000	770,000	2021	2046
	5182160622	SWM Facility Maintenance Program	2,000,000	345,680	1,500,000	1,280,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	7,200,000	7,200,000	14,300,000	12,425,680	2021	2046
	5182160722	Municipal Drain Program	700,000	227,000	100,000	25,000	100,000	25,000	100,000	25,000	100,000	25,000	600,000	150,000	1,700,000	477,000	2021	2046
	5182274950	Watercourse and Drainage Channel Maintenance	-	-	1,445,000	900,000	460,000	460,000	460,000	460,000	860,000	860,000	3,300,000	3,300,000	6,525,000	5,980,000	2022	2046
	5182761073	Large Sewermain Lining - Stanley Ave	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027	
<b>Rehabilitation / Renovation Total</b>			<b>6,220,000</b>	<b>4,092,680</b>	<b>5,565,000</b>	<b>2,725,000</b>	<b>3,580,000</b>	<b>3,505,000</b>	<b>3,580,000</b>	<b>3,505,000</b>	<b>3,980,000</b>	<b>3,905,000</b>	<b>24,070,000</b>	<b>23,620,000</b>	<b>46,995,000</b>	<b>41,352,680</b>		
Replacement	5182017040	Highway 97 - Culvert Improvement Project	500,000	500,000	300,000	300,000	-	-	-	-	-	-	-	-	800,000	800,000	2020	2022
	5182117458	Catch Basin Replacement/Rehabilitation Program	500,000	500,000	1,000,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	6,000,000	5,500,000	2021	2046
	5182161740	Unscheduled Manhole and Sewermain Replacement Program	118,373	118,373	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	300,000	300,000	618,373	618,373	2021	2046
	5182172074	Contingency for Unscheduled Works Program	-	-	180,000	180,000	-	-	180,000	180,000	-	-	540,000	540,000	900,000	900,000	2022	2046
	5182260220	Culvert FLA-3008 - Old Brock Rd 100m w/o Brock	-	-	150,000	150,000	350,000	350,000	-	-	-	-	-	-	500,000	500,000	2022	2023
	5182872295	Main - Prospect to Gage - SERG B-3	-	-	-	-	-	-	-	-	-	-	1,710,000	1,710,000	1,710,000	1,710,000	2028	2028
<b>Replacement Total</b>			<b>1,118,373</b>	<b>1,118,373</b>	<b>1,680,000</b>	<b>1,180,000</b>	<b>900,000</b>	<b>900,000</b>	<b>730,000</b>	<b>730,000</b>	<b>550,000</b>	<b>550,000</b>	<b>5,550,000</b>	<b>5,550,000</b>	<b>10,528,373</b>	<b>10,028,373</b>		
Staffing Costs	5182101099	Engineering Services Staffing Costs - Storm	1,100,000	1,100,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	10,200,000	10,200,000	18,100,000	18,100,000	2021	2046
<b>Staffing Costs Total</b>			<b>1,100,000</b>	<b>1,100,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>10,200,000</b>	<b>10,200,000</b>	<b>18,100,000</b>	<b>18,100,000</b>		
<b>Grand Total</b>			<b>18,409,373</b>	<b>12,282,053</b>	<b>36,145,000</b>	<b>11,765,000</b>	<b>29,890,000</b>	<b>19,640,000</b>	<b>36,475,000</b>	<b>26,345,000</b>	<b>23,530,000</b>	<b>19,455,000</b>	<b>182,840,000</b>	<b>156,850,000</b>	<b>327,289,373</b>	<b>246,337,053</b>		



# STORM

## 2022 Capital Project Detail Sheets

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# Project Scenario Summary

## 5182271328 - Southcote - Garner to Highway 403 Bridge

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Network Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	61.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** The existing drainage system was found to be deficient in storm flow capacity. Installation of a separated storm sewer system, including catch basins and connections, to reduce the risk of surface flooding. This project is to be coordinated with road reconstruction and watermain replacement. CPMS 11023

**Comments**  
**Expenditure By Asset Component**

No data found for the selected parameters.

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	1,500,000	-	-	-	-	-	-	-	-	-	1,500,000
<b>Total Funding Source</b>	-	<b>1,500,000</b>	-	-	-	-	-	-	-	-	-	<b>1,500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,500,000	-	-	-	-	-	-	-	-	-	1,500,000
<b>Total Expenditure</b>	-	<b>1,500,000</b>	-	-	-	-	-	-	-	-	-	<b>1,500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5182172205 - Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	42.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** The existing drainage system was found to be deficient in storm flow capacity. Installation of a separated storm sewer system, including catch basins and connections, is required to reduce risk and liability. This project is to be coordinated with and watermain replacement and road reconstruction CPMS 11339

**Comments** Installation of storms sewers along Underhill Ave, Glenmorris Drive, Willmar Court and Sleepy Hollow Court. Concrete pipe ranging in diameter from 375mm to 600mm along with enhancements to outlets into Jojo Lake.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Sewers > 600 mm	100%	1,910,000	30,000	1,880,000
		1,910,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	30,000	-	-	-	-	-	-	-	-	-	-	-
49412 - Contrib From Rsve	-	1,880,000	-	-	-	-	-	-	-	-	-	1,880,000
<b>Total Funding Source</b>	<b>30,000</b>	<b>1,880,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,880,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,880,000	-	-	-	-	-	-	-	-	-	1,880,000
59225 - Design Engineering Overhead	30,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	<b>30,000</b>	<b>1,880,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,880,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182271226 - Mud St (Phase 02) - Isaac Brock Dr to Upper Centennial Pkwy

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	44.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing storm sewer has become deficient in capacity. Replacement of the storm sewer(s) including required manholes, catch basins and connections are required to reduce the risk and liability associated with surface flooding issues. This project is to be coordinated with road reconstruction (4032011026) CPMS 11592

**Comments** Replace approx. 35m of existing 525mm storm sewer and install catch basin and connections to improve surface drainage and storm water conveyance.

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Sewers < 600 mm	100%	180,000	-	180,000
		180,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Total Funding Source</b>	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Total Expenditure</b>	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

5182271312 - Streathearne - Main to Britannia

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Coordinated - Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	48.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The existing combined sewer system was found to be deficient in storm flow capacity. Installation of a separated storm sewer system, including catch basins and connections, is required to reduce risk and liability associated with sewer backup. This project is to be coordinated with road reconstruction and watermain replacement.CPMS 11489

**Comments** Installation of separated storm relief sewer on Strathearne Ave from Roxborough to Britannia.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Sewers >600 mm	100%	1,000,000	-	1,000,000
		1,000,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Funding Source</b>	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Total Expenditure</b>	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5181823155 - South St E and East St S in Dundas Drainage Improvement - SERG

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Enhancement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2018-01-01	<b>Completion Date</b>	2024-12-31	<b>Year Approved</b>	2018
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**

**Description** This project will assess the existing drainage conditions at the intersection of South Street East and East Street South due to recurring drainage problems. Options to improve the level of service at this location will be examined. This budget will cover the assessment and development of conceptual alternatives, detailed design, and construction. Depending on the type of solution identified an easement or land acquisition may be required.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Small Culverts (cross road and driveway)	100%	1,440,000	230,000	1,210,000
		1,440,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	230,000	110,000	-	-	-	-	-	-	-	-	-	110,000
<b>Total Funding Source</b>	<b>230,000</b>	<b>110,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>110,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	100,000	-	-	-	-	-	-	-	-	-	100,000
55801 - Consulting Services	100,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	-	-	-	1,000,000	-	-	-	-	-	-	-	1,000,000
59225 - Design Engineering Overhead	50,000	-	-	-	-	-	-	-	-	-	-	-
59259 - Land/Property Aquisition	50,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	30,000	10,000	-	100,000	-	-	-	-	-	-	-	110,000
<b>Total Expenditure</b>	<b>230,000</b>	<b>110,000</b>	<b>-</b>	<b>1,100,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,210,000</b>
<b>Percent Increase</b>			(100.00%)	100.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5181872295 - SERG - Winona Area Drainage Improvements

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Enhancement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	15.0
<b>Start Date</b>	2018-01-01	<b>Completion Date</b>	2028-12-31	<b>Year Approved</b>	2018
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**  
**Description** Class Environmental Assessment Study determined preferred alternative to resolve existing flood risk issues, acquire land (if needed) and construct new pipes and ditches.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Major swales	100%	2,420,000	710,000	1,710,000
		2,420,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	710,000	440,000	-	-	-	-	-	-	-	-	-	440,000
<b>Total Funding Source</b>	<b>710,000</b>	<b>440,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>440,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	240,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	200,000	-	-	-	-	-	-	1,000,000	-	-	-	1,000,000
59225 - Design Engineering Overhead	200,000	-	-	-	-	150,000	-	-	-	-	-	150,000
59259 - Land/Property Aquisition	-	400,000	-	-	-	-	-	-	-	-	-	400,000
59809 - Cap-Cur_Recovery_Oper Budget	70,000	40,000	-	-	-	20,000	-	100,000	-	-	-	160,000
<b>Total Expenditure</b>	<b>710,000</b>	<b>440,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>170,000</b>	<b>-</b>	<b>1,100,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,710,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	100.00%	(100.00%)	100.00%	(100.00%)	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5181967500 - DMAF- CSO Backflow Preventors

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Enhancement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	59.0
<b>Start Date</b>	2019-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	2019
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** to install back-flow devices at four Combined Sewer Overflow (CSO) outlets to prevent inflow infiltration from high lake levels as the result of extreme storm events

**Comments** As announced in March 2019, the doubling of the Federal GTF provides the City with \$32.6 M for infrastructure projects. While the Federal GTF cannot be used to fund more than 40% of DMAF projects under the terms of DMAF, these federal funds can be used for other projects and the financing sources of these projects (i.e. contributions from the operating budget can be appropriated to the DMAF projects).  
 Stuart Leitch 2021-Jul-21 : Requesting additional budgets, 2022 Design \$350K & 2022 Construction \$2.1M.

PMO Check - will need to check if funds available for funding new request vs. new money non-funded?

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Inlet/Outfall structures	100%	3,690,000	1,050,000	2,640,000
		3,690,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
42005 - Federal Contribution	420,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	-	390,000	-	-	-	-	-	-	-	-	-	390,000
49412 - Contrib From Rsve	630,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>1,050,000</b>	<b>390,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>390,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	350,000	-	-	-	-	-	-	-	-	-	350,000
59212 - Construction	1,050,000	-	2,100,000	-	-	-	-	-	-	-	-	2,100,000
59809 - Cap-Cur_Recovery_Oper Budget	-	40,000	150,000	-	-	-	-	-	-	-	-	190,000
<b>Total Expenditure</b>	<b>1,050,000</b>	<b>390,000</b>	<b>2,250,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,640,000</b>
<b>Percent Increase</b>			476.92%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.



# Project Scenario Summary

## 5182255688 - EA for Rosedale Stormwater Management Facility - Outlet to Red Hill Creek

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Enhancement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	32.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** The Rosedale Drainage and Flooding study has proposed a new Stormwater Management (SWM) facility to mitigate the overland flood risks to the Rosedale Neighbourhood. The proposed SWM facility was designed to outlet to the existing combined system, which is historically accurate. The MECP and HW in an effort to separate clean stormwater runoff from the combined system see an opportunity to redirect the flow from the SWM facility to an outlet along the Red Hill Creek. Complete a Schedule "B" or "C" including development and review of potential sewer and outlet alignments, conceptual design of the preferred alignment and outlet, and accompanying Schedule EA studies.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Pond	100%	450,000	-	450,000
		450,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	450,000	-	-	-	-	-	-	-	-	-	450,000
<b>Total Funding Source</b>	-	450,000	-	-	-	-	-	-	-	-	-	450,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59274 - Preliminary Design	-	350,000	-	-	-	-	-	-	-	-	-	350,000
59809 - Cap-Cur_Recovery_Oper Budget	-	100,000	-	-	-	-	-	-	-	-	-	100,000
<b>Total Expenditure</b>	-	450,000	-	-	-	-	-	-	-	-	-	450,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5182280290 - SWMP SL12 Block 3 (1090 Barton Street)

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Expansion / Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	16.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Storm pond to facilitate growth. SWM pond within 1090 Barton Street subdivison - to be built by developer. DC Project Cat C SCL SWMF12.  
**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Pond	100%	10,330,000	-	10,330,000
		10,330,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49004 - Debenture Proceeds Dev Chgs - RE	-	10,330,000	-	-	-	-	-	-	-	-	-	10,330,000
49005 - Debenture Proc Dev Chg Non RES	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	-	10,330,000	-	-	-	-	-	-	-	-	-	10,330,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,620,000	-	-	-	-	-	-	-	-	-	1,620,000
59259 - Land/Property Aquisition	-	8,710,000	-	-	-	-	-	-	-	-	-	8,710,000
<b>Total Expenditure</b>	-	10,330,000	-	-	-	-	-	-	-	-	-	10,330,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5182280291 - SWMP SM21 Nash 2/3 Development

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Expansion / Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	16.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Storm pond to facilitate growth. SWM pond within Nash 2/3 subdivison - to be built by developer. DC Project Cat C SCM SWMF21.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Pond	100%	4,745,000	-	4,745,000
		4,745,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48475 - Fr DC	-	4,745,000	-	-	-	-	-	-	-	-	-	4,745,000
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res	-	-	-	-	-	-	-	-	-	-	-	-
DC_Cap												
<b>Total Funding Source</b>	-	4,745,000	-	-	-	-	-	-	-	-	-	4,745,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	2,375,000	-	-	-	-	-	-	-	-	-	2,375,000
59259 - Land/Property Aquisition	-	2,370,000	-	-	-	-	-	-	-	-	-	2,370,000
<b>Total Expenditure</b>	-	4,745,000	-	-	-	-	-	-	-	-	-	4,745,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

5182280292 - SWMP SM17 198 Highland Road West

<b>Project Manager</b>	Tony Sergi	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Expansion / Extension	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	16.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Storm pond to facilitate growth. SWM pond within 198 Highland Road West - to be built by developer. DC Project Cat C SCM SWMF17 per DC Background Study.  
**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Pond	100%	4,085,000	-	4,085,000
		4,085,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
48475 - Fr DC	-	4,085,000	-	-	-	-	-	-	-	-	-	4,085,000
Rsv_TCA_ResDevChge_Cap												
48476 - Fr DC Rsv_TCA_Non-Res	-	-	-	-	-	-	-	-	-	-	-	-
DC_Cap												
<b>Total Funding Source</b>	-	4,085,000	-	-	-	-	-	-	-	-	-	4,085,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	1,070,000	-	-	-	-	-	-	-	-	-	1,070,000
59259 - Land/Property Aquisition	-	3,015,000	-	-	-	-	-	-	-	-	-	3,015,000
<b>Total Expenditure</b>	-	4,085,000	-	-	-	-	-	-	-	-	-	4,085,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182095800 - Flooding & Drainage Master Plan Capital Improvements

<b>Project Manager</b>	Gavin Norman	<b>Section</b>	Development Engineering - Growth Management	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	50.0
<b>Start Date</b>	2020-01-01	<b>Completion Date</b>	2025-12-31	<b>Year Approved</b>	2020
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Implementation of capital works and/or further analysis based on the recommendations in the City Wide Flooding and Drainage Master Plan. Supplemented by Wastewater capital detail sheet 5162095800.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Sewers < 600 mm	100%	2,490,000	880,000	1,610,000
		2,490,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	880,000	450,000	-	-	-	-	-	-	-	-	-	450,000
<b>Total Funding Source</b>	<b>880,000</b>	<b>450,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>450,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	250,000	250,000	250,000	150,000	-	-	-	-	-	-	-	650,000
59212 - Construction	500,000	-	-	-	-	-	-	-	-	-	-	-
59225 - Design Engineering Overhead	50,000	150,000	250,000	250,000	150,000	-	-	-	-	-	-	800,000
59809 - Cap-Cur_Recovery_Oper Budget	80,000	50,000	50,000	40,000	20,000	-	-	-	-	-	-	160,000
<b>Total Expenditure</b>	<b>880,000</b>	<b>450,000</b>	<b>550,000</b>	<b>440,000</b>	<b>170,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,610,000</b>
<b>Percent Increase</b>			22.22%	(20.00%)	(61.36%)	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182117550 - Concrete Box Culvert Rehab/Repair - Engineering Services

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	28.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** Funding for inventory assessment, prioritization, mapping and additional engineering investigation and evaluation costs of existing concrete box culverts that have a span of less than 3 meters throughout the City, reducing liability and increasing public safety.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Small Culverts (cross road and driveway)	100%	6,500,000	250,000	6,250,000
		6,500,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	250,000	250,000	-	-	-	-	-	-	-	-	-	250,000
<b>Total Funding Source</b>	<b>250,000</b>	<b>250,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>250,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000
<b>Total Expenditure</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>2,500,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182149555 - QA-QC Service Contract Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	36.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Allocated funding to provide quality assurance and control for existing road rehabilitation and replacement contracts. Includes but not limited to: coupon testing, CCTV, soil resistivity and compaction.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Water Other	100%	3,924,000	174,000	3,750,000
		3,924,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	174,000	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Funding Source</b>	<b>174,000</b>	<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,500,000
59212 - Construction	174,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Expenditure</b>	<b>174,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>1,500,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182155421 - Stormwater System Planning Program

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Environmental Assessments, hydraulic analysis and flood risk assessments performed on an as required basis to recommend upgrades and system improvements. Includes analysis related to growth. Intensification related to system capacity. Undertake system analysis, EA's and conceptual design for projects including field data systems, local scoped computer modelling and surveys.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Water Other	100%	9,500,000	-	9,500,000
		9,500,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	380,000	-	-	-	-	-	-	-	-	-	380,000
<b>Total Funding Source</b>	-	380,000	-	-	-	-	-	-	-	-	-	380,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	3,500,000
59809 - Cap-Cur_Recovery_Oper Budget	-	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	300,000
<b>Total Expenditure</b>	-	380,000	380,000	380,000	380,000	380,000	380,000	380,000	380,000	380,000	380,000	3,800,000
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

## 5182155556 - Mapping Update Program

<b>Project Manager</b>	David Lamont	<b>Section</b>	Geomatics and Corridor Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	41.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Acquire updated air photos, update the City's Digital Terrain Model (DEM) and mapping of road edges, sidewalks, building footprints etc. This supports the study of Storm water issues, supports operating and capital programs, assists in land development reviews. Develop and Maintain Horizontal ( Lat / Long) and Vertical (Elevation) control networks across the City to allow correct data integration and alignment of ground based surveys with the City's mapping program.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Water Other	100%	1,097,000	97,000	1,000,000
		1,097,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	40,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	57,000	40,000	-	-	-	-	-	-	-	-	-	40,000
<b>Total Funding Source</b>	<b>97,000</b>	<b>40,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>40,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	97,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	400,000
<b>Total Expenditure</b>	<b>97,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>	<b>400,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182174951 - Shoreline Protection Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	18.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** Funding to sustain the functionality of shoreline protection infrastructure that is located along the shoreline where an outlet from the stormwater system exists. Activities under this program will include: asset data collection, asset inspection and condition assessments, engineered designs, obtaining approval from various regulatory stakeholders, tender preparation, contract administration, and construction activities.  
 2022 Scope: Design work to support future maintenance and repair activities.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Water Other	100%	12,470,000	1,320,000	11,150,000
		12,470,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	1,320,000	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Funding Source</b>	<b>1,320,000</b>	<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>150,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,500,000
59212 - Construction	1,170,000	-	-	600,000	-	-	600,000	-	-	600,000	-	1,800,000
59225 - Design Engineering Overhead	-	-	250,000	-	-	250,000	-	-	250,000	-	-	750,000
<b>Total Expenditure</b>	<b>1,320,000</b>	<b>150,000</b>	<b>400,000</b>	<b>750,000</b>	<b>150,000</b>	<b>400,000</b>	<b>750,000</b>	<b>150,000</b>	<b>400,000</b>	<b>750,000</b>	<b>150,000</b>	<b>4,050,000</b>
<b>Percent Increase</b>			166.67%	87.50%	(80.00%)	166.67%	87.50%	(80.00%)	166.67%	87.50%	(80.00%)	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182174680 - Storm Sewer Network Planning - Transportation Program

<b>Project Manager</b>	Bert Posedowski	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	49.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	System Enhancement			<b>Project Status</b>	Open

**Wards**  
**Description** Satisfy Municipal Class Environmental Assessment requirements for stormwater management, and develop conceptual storm sewer network designs, for transportation upgrade/redesign projects where new or modified storm sewers are needed. Hydrologic and hydraulic analysis, Class Municipal Environmental Assessment, conceptual design of sewer networks.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Water Other	100%	16,760,000	660,000	16,100,000
		16,760,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	660,000	260,000	-	-	-	-	-	-	-	-	-	260,000
<b>Total Funding Source</b>	<b>660,000</b>	<b>260,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>260,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	600,000	80,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,880,000
59274 - Preliminary Design	-	160,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	3,760,000
59809 - Cap-Cur_Recovery_Oper Budget	60,000	20,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	560,000
<b>Total Expenditure</b>	<b>660,000</b>	<b>260,000</b>	<b>660,000</b>	<b>660,000</b>	<b>660,000</b>	<b>660,000</b>	<b>660,000</b>	<b>660,000</b>	<b>660,000</b>	<b>660,000</b>	<b>660,000</b>	<b>6,200,000</b>
<b>Percent Increase</b>			153.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182255210 - Storm Water Outfall Investigations

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Feasibility Plans / EA's/ Studies	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	27.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Stormwater outlet investigations will include tree inventories, nature heritage and other environment requirements needed to rehab or replace these assets.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Water Other	100%	7,500,000	-	7,500,000
		7,500,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	300,000	-	-	-	-	-	-	-	-	-	300,000
<b>Total Funding Source</b>	-	300,000	-	-	-	-	-	-	-	-	-	300,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000
59212 - Construction	-	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000
<b>Total Expenditure</b>	-	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	3,000,000
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5182162073 - Field Data Systems Program

<b>Project Manager</b>	David Lamont	<b>Section</b>	Geomatics and Corridor Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Licenses	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	31.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** To maintain, upgrade and acquire data and information for various infrastructure management systems involved with the overall management of the stormwater collection network. (IPS; IRISS; ESRI, ProjectWise Connect, Scene Software – LiDAR and Bentley Suite Software)

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Computer Software	100%	2,914,000	164,000	2,750,000
		2,914,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	54,000	-	-	-	-	-	-	-	-	-	-	-
49300 - CORP CONT FRM CURR TO CAP	110,000	110,000	-	-	-	-	-	-	-	-	-	110,000
<b>Total Funding Source</b>	<b>164,000</b>	<b>110,000</b>	-	-	-	-	-	-	-	-	-	<b>110,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59271 - Other Capital Expenditures	164,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	1,100,000
<b>Total Expenditure</b>	<b>164,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>110,000</b>	<b>1,100,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5181767723 - Grafton and Centennial Stormwater Pumping Stations - Standby Power

<b>Project Manager</b>	Stuart Leitch	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	20.0
<b>Start Date</b>	2017-01-01	<b>Completion Date</b>	2026-12-31	<b>Year Approved</b>	2017
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open
<b>Wards</b>					
<b>Description</b>	To provide effective maintenance of the Centennial HSS02 and Grafton HSS01 stormwater pumping stations including building provision of standby power and system requirements and equipment rehabilitation/replacement.				

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
<b>Pumping Stations - Stormwater</b>	<b>100%</b>	<b>2,550,000</b>	<b>2,050,000</b>	<b>500,000</b>
		<b>2,550,000</b>		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	2,050,000	450,000	-	-	-	-	-	-	-	-	-	450,000
<b>Total Funding Source</b>	<b>2,050,000</b>	<b>450,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>450,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	1,700,000	400,000	-	-	-	50,000	-	-	-	-	-	450,000
59225 - Design Engineering Overhead	350,000	-	-	-	-	-	-	-	-	-	-	-
59809 - Cap-Cur_Recovery_Oper Budget	-	50,000	-	-	-	-	-	-	-	-	-	50,000
<b>Total Expenditure</b>	<b>2,050,000</b>	<b>450,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>50,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	100.00%	(100.00%)	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



**Expenditure**

59212 - Construction	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	15,000,000
<b>Total Expenditure</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>15,000,000</b>
<b>Percent Increase</b>			<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	

**Project Impact Forecast**

No data found for the selected parameters.



# Project Scenario Summary

5182117549 - Concrete Box Culvert Rehab/Repair - T.O.M.

<b>Project Manager</b>	Mike Field	<b>Section</b>	Transportation Operations - Transportation Operations & Maintenance	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	53.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** Funding for repair and/or replacement of existing concrete box culverts that have a span of less than 3 meters throughout the City, reducing liability and increasing public safety.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Small Culverts (cross road and driveway)	100%	6,750,000	250,000	6,500,000
		6,750,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	500,000	-	-	-	-	-	-	-	-	-	500,000
49300 - CORP CONT FRM CURR TO CAP	250,000	-	-	-	-	-	-	-	-	-	-	-
<b>Total Funding Source</b>	<b>250,000</b>	<b>500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	250,000	500,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,750,000
<b>Total Expenditure</b>	<b>250,000</b>	<b>500,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>2,750,000</b>
<b>Percent Increase</b>			(50.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182160533 - Trenchless Manhole Rehabilitation

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	60.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** Trenchless manhole rehabilitation coordinated with mainline CIPP (Cured in Place Pipe) rehabilitation program. Manhole rehabilitation is intended to reduce the risks associated with manhole collapse and manhole infiltration issues.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Manholes - Local	100%	1,820,000	70,000	1,750,000
		1,820,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	70,000	70,000	-	-	-	-	-	-	-	-	-	70,000
<b>Total Funding Source</b>	70,000	70,000	-	-	-	-	-	-	-	-	-	70,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	700,000
<b>Total Expenditure</b>	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	700,000
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182160622 - SWM Facility Maintenance Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	32.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** Rehabilitate and/or replace various assets within storm water management ponds to sustain functionality and lifecycle expectations. These works will include functional aspects i.e. structure rehab/replacement, vegetation restoration, siltation/debris removal, bank stabilization, etc. but excludes aesthetic.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Pond	100%	32,300,000	2,000,000	30,300,000
		32,300,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	345,680	1,280,000	-	-	-	-	-	-	-	-	-	1,280,000
49412 - Contrib From Rsve	1,654,320	220,000	-	-	-	-	-	-	-	-	-	220,000
<b>Total Funding Source</b>	<b>2,000,000</b>	<b>1,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,500,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	2,000,000	1,500,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	12,300,000
<b>Total Expenditure</b>	<b>2,000,000</b>	<b>1,500,000</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>12,300,000</b>
<b>Percent Increase</b>			(20.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182160722 - Municipal Drain Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	27.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** To provide the engineering and consulting of municipal drains as required under the Municipal Drainage Act R.S.O. 1990 Chapter D17. A portion of the Maintenance and Repair costs are recoverable from the benefiting land owners. Budget reflects City’s cost share for its affected lands. Cost share proportions may vary depending on the type of drainage work undertaken. This program includes drainage works associated with the establishment of new municipal drains, maintenance & repair to repair to existing drains in accordance of said Act.

**Comments** Maintenance and repair activities includes: sediment removal, spot clean-out, culvert replacement, bank repairs, outlet repairs.

This program also includes budget for the updating/developing new assessment schedules, per section 76 of said Act.

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Laterals - Local	100%	3,200,000	700,000	2,500,000
		3,200,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49222 - Other Revenues	473,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	750,000
49300 - CORP CONT FRM CURR TO CAP	227,000	25,000	-	-	-	-	-	-	-	-	-	25,000
<b>Total Funding Source</b>	<b>700,000</b>	<b>100,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>775,000</b>
<b>Percent Increase</b>			(25.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	700,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000
<b>Total Expenditure</b>	<b>700,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>1,000,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182274950 - Watercourse and Drainage Channel Maintenance

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Rehabilitation / Renovation	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	30.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**

**Description** Funding required to sustain the functionality and be able to respond to emergency conditions related to the City's surface drainage infrastructure. Activities under this program will include: asset data collection/inspection/condition assessments, environmental assessments, engineered designs, obtaining approval from various regulatory stakeholders, tender preparation, contract administration, and construction activities. he infrastructure includes a combined 191 kilometers of watercourses and overland drainage channels, that are either located on lands owned by the City, or within easements in the City's favour.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Roadside Ditches - Local	100%	13,525,000	-	13,525,000
		13,525,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	545,000	-	-	-	-	-	-	-	-	-	545,000
49300 - CORP CONT FRM CURR TO CAP	-	900,000	-	-	-	-	-	-	-	-	-	900,000
<b>Total Funding Source</b>	-	<b>1,445,000</b>	-	-	-	-	-	-	-	-	-	<b>1,445,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	-	330,000	460,000	310,000	360,000	400,000	250,000	250,000	250,000	400,000	250,000	3,260,000
59212 - Construction	-	1,115,000	-	-	500,000	-	-	500,000	-	-	500,000	2,615,000
59225 - Design Engineering Overhead	-	-	-	150,000	-	-	150,000	-	-	-	-	300,000
59809 - Cap-Cur_Recovery_Oper Budget	-	-	-	-	-	60,000	60,000	110,000	60,000	60,000	-	350,000
<b>Total Expenditure</b>	-	<b>1,445,000</b>	<b>460,000</b>	<b>460,000</b>	<b>860,000</b>	<b>460,000</b>	<b>460,000</b>	<b>860,000</b>	<b>310,000</b>	<b>460,000</b>	<b>750,000</b>	<b>6,525,000</b>
<b>Percent Increase</b>			(68.17%)	0.00%	86.96%	(46.51%)	0.00%	86.96%	(63.95%)	48.39%	63.04%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182017040 - Highway 97 - Culvert Improvement Project

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	48.0
<b>Start Date</b>	2020-01-01	<b>Completion Date</b>	2022-12-31	<b>Year Approved</b>	2020
<b>Investment Type</b>	Lifecycle Investment			<b>Project Status</b>	Open

**Wards**

**Description** To replace the existing grouping of cross culverts (5 barrels) with a single/double span structure, to best match the existing hydraulic performance of the crossing. The grouping of culvert assets is: FLA-433, FLA-441, FLA-442, FLA-467, FLA-539. he work includes preparation of an engineered design to replace the existing five (5) corrugated steel pipe arches with a single/double span structure, performing a hydraulic analysis to evaluate the existing and proposed site condition, carrying out a geotechnical investigation to support the engineered design, and obtaining permits from the regulatory agencies (2020). Construction of the culvert is to follow in 2021. This work will be carried out by Engineering Services Division.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Small Culverts (cross road and driveway)	100%	1,060,000	760,000	300,000
		1,060,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	760,000	300,000	-	-	-	-	-	-	-	-	-	300,000
<b>Total Funding Source</b>	<b>760,000</b>	<b>300,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>300,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55801 - Consulting Services	260,000	-	-	-	-	-	-	-	-	-	-	-
59212 - Construction	500,000	300,000	-	-	-	-	-	-	-	-	-	300,000
<b>Total Expenditure</b>	<b>760,000</b>	<b>300,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>300,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182117458 - Catch Basin Replacement/Rehabilitation Program

<b>Project Manager</b>	Mike Field	<b>Section</b>	Transportation Operations - Transportation Operations & Maintenance	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	73.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards Description**  
 To provide funding for the replacement and/or rehabilitation of existing catchbasin and leads throughout the City, thus reducing maintenance costs, liability risks, increasing public safety and extending asset life expectancy. 2021 works will be prioritized and scheduled as a result of a condition assessment compiled in conjunction with the production catch basin cleaning contract.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Small Culverts (cross road and driveway)	100%	13,500,000	500,000	13,000,000
		13,500,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49255 - Inter Capital Transfers	-	500,000	-	-	-	-	-	-	-	-	-	500,000
49300 - CORP CONT FRM CURR TO CAP	500,000	500,000	-	-	-	-	-	-	-	-	-	500,000
<b>Total Funding Source</b>	<b>500,000</b>	<b>1,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,000,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	500,000	1,000,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,500,000
<b>Total Expenditure</b>	<b>500,000</b>	<b>1,000,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>5,500,000</b>
<b>Percent Increase</b>			(50.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182161740 - Unscheduled Manhole and Sewermain Replacement Program

<b>Project Manager</b>	Nick Winters	<b>Section</b>	Storm Water - Storm	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	7.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**  
**Description** For the replacement of manholes and sewer mains as a result of failures in the system.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Manholes - Trunk	100%	1,368,373	118,373	1,250,000
		1,368,373		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	118,373	50,000	-	-	-	-	-	-	-	-	-	50,000
<b>Total Funding Source</b>	<b>118,373</b>	<b>50,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>50,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	118,373	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000
<b>Total Expenditure</b>	<b>118,373</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>500,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

### Project Impact Forecast

No data found for the selected parameters.



# Project Scenario Summary

## 5182172074 - Contingency for Unscheduled Works Program

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	47.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** To allow for unscheduled works to be undertaken, minor improvements, land acquisition, capital system upgrades and emergency works.  
**Comments**

### Expenditure By Asset Component

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Laterals - Local	100%	2,340,000	-	2,340,000
		2,340,000		

### Project Forecast

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Total Funding Source</b>	-	180,000	-	-	-	-	-	-	-	-	-	180,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59212 - Construction	-	180,000	-	180,000	-	180,000	-	180,000	-	180,000	-	900,000
<b>Total Expenditure</b>	-	180,000	-	180,000	-	180,000	-	180,000	-	180,000	-	900,000
<b>Percent Increase</b>			(100.00%)	100.00%	(100.00%)	100.00%	(100.00%)	100.00%	(100.00%)	100.00%	(100.00%)	

### Project Impact Forecast

No data found for the selected parameters.

# Project Scenario Summary

## 5182260220 - Culvert FLA-3008 - Old Brock Rd 100m w/o Brock

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Replacement	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	79.0
<b>Start Date</b>	2022-01-01	<b>Completion Date</b>	2023-12-31	<b>Year Approved</b>	0
<b>Investment Type</b>				<b>Project Status</b>	Open

**Wards**  
**Description** Old Brock Rd - Culvert Replacement (#FLA-3008) Replacement of failed culvert to prevent further damage to roadway. CPMS 11578 - Replacement of the existing concrete box culverts to reduce the liability and increasing public safety. 322 Old Brock Rd - 1.1m x 1.4m concrete box culvert with a concrete extension. The original section has a steel girder & wood top and the extension has a CSP top over it. They are both failing. The box has 2 bends and 2 concrete inlets into it as well.

**Comments**

**Expenditure By Asset Component**

Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Minor Culvert	100%	500,000	-	500,000
		500,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	-	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Total Funding Source</b>	-	150,000	-	-	-	-	-	-	-	-	-	150,000
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
55441 - Design	-	150,000	-	-	-	-	-	-	-	-	-	150,000
59212 - Construction	-	-	350,000	-	-	-	-	-	-	-	-	350,000
<b>Total Expenditure</b>	-	150,000	350,000	-	-	-	-	-	-	-	-	500,000
<b>Percent Increase</b>			133.33%	(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.

# Project Scenario Summary

## 5182101099 - Engineering Services Staffing Costs - Storm

<b>Project Manager</b>	Erika Waite	<b>Section</b>	Asset Management - Engineering Services	<b>Project Rank</b>	0.0
<b>Project Type</b>	Staffing Costs	<b>Budget Type</b>	Capital Rate	<b>Rates Rank</b>	99.0
<b>Start Date</b>	2021-01-01	<b>Completion Date</b>	2046-12-31	<b>Year Approved</b>	2021
<b>Investment Type</b>	Maintenance			<b>Project Status</b>	Open

**Wards**

**Description** To fund Engineering Services staffing costs through capital for work on storm water related capital projects, both in-year and future. In the past, these charges were built into in-year approved capital projects on a pro-rated basis. In order to provide more transparency and capture staffing costs for future works in a more accurate way, these staffing costs are now reflected in this project and removed from all other individual Engineering Services projects.

**Comments**

**Expenditure By Asset Component**

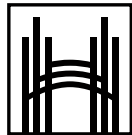
Asset Components	Share	Total Budget	Previously Approved	Forecast Budget
Storm Water Other	100%	43,600,000	1,100,000	42,500,000
		43,600,000		

**Project Forecast**

GL Account	Pre 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Funding Source</b>												
49300 - CORP CONT FRM CURR TO CAP	1,100,000	1,700,000	-	-	-	-	-	-	-	-	-	1,700,000
<b>Total Funding Source</b>	<b>1,100,000</b>	<b>1,700,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,700,000</b>
<b>Percent Increase</b>			(100.00%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Expenditure</b>												
59809 - Cap-Cur_Recovery_Oper Budget	1,100,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	17,000,000
<b>Total Expenditure</b>	<b>1,100,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>1,700,000</b>	<b>17,000,000</b>
<b>Percent Increase</b>			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

**Project Impact Forecast**

No data found for the selected parameters.



Hamilton