

DRAFT RATE SUPPORTED
**OPERATING BUDGET &
CAPITAL FORECAST**
WATER & WASTEWATER

The "Draft" Rate Supported Budget for 2021 has been approved by Council on January 26, 2021 as is, and therefore is, the Final Rate Supported Budget for 2021.



2021



2021 Rate Supported Water & Wastewater Operating Budget and Capital Forecast

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Message from the Chief Financial Officer

Mayor and Members of the Council,

This document presents the 2021 Draft Rate Supported Operating Budget and Capital Forecast, outlining the services to provide potable water and wastewater services to Haldimand County's citizens and businesses. As such, it is one of the most important strategic documents that Council reviews annually in ensuring reliable, safe, clean and affordable potable water is available to people in every community. The review and approval of the 2021 Draft Rate Supported Budget will provide for the applicable water and wastewater rates required to fully recover the cost of the relevant systems, as **none** of these costs are funded by property taxes.

The provision of potable water services in the Province of Ontario is highly regulated. While these regulatory requirements have helped to ensure potable water is safe and clean, they have significantly impacted the water and wastewater operations over time and have adversely impacted the associated rates. Despite these impacts and the large number of independent water and wastewater systems across the County, Haldimand County's water and wastewater rates have remained competitive through long range financial planning and good fiscal stewardship over the annual operations.

The 2021 Draft Rate Supported Operating Budget and Capital Forecast has been developed on the following fundamental principles:

- Capital and operating costs associated with the provision of water and wastewater services have been allocated directly to the users of these systems (although the majority of customers use both systems, some users only have one system or the other);
- Full cost recovery of all operating and capital costs are recovered directly from the users of the applicable systems;
- Aggregate net costs (i.e. revenues required from rates revenue) will be recovered 50% from fixed revenues (i.e. basic charges) and 50% from variable revenues (i.e. consumption revenues);
- Leachate costs to be allocated based on relative loading at the treatment plant and recovered 50% from fixed revenues and 50% from variable revenues;
- Annual indexing of all miscellaneous revenues based on the annual increase of underlying costs;

As such, there are three main factors that impact the rates annually: (i) increase/decreases in gross costs; (ii) increases/decreases in miscellaneous revenues (i.e. bulk services, industrial recoveries, etc.); and (iii) changes in annual consumptions/number of customers.

The 2021 Draft Rate Supported Operating Budget, as outlined in this document, represents an overall net **increase** in total rate revenue requirements of \$393,200 or 3.13% compared to the 2020 budgeted total rates revenue of \$12.6 million (the water system requires an increase of \$146,430 or 2.54% in rates revenue; while the wastewater system reflects an increase of \$246,770 or 3.63% in rates revenue). The relative impact on each system varies: a 1% impact in the water system is equal to approximately \$59,200 in user rates revenue; while a 1% impact on the wastewater system is equal to \$70,500 (\$129,700 combined).

It should be noted that, unlike projected tax supported operations, there were very limited impacts due to COVID in 2020 or any projected impacts into 2021; in fact annual residential and commercial consumption appears up for 2020.

Based on the proposed potable water rates, the typical residential user will see a monthly bill of \$82.74, representing an **increase** of approximately **\$0.37 or 0.4%** (based on a residential service of 1" or less and average consumption of 15 m³ per month – as outlined in Operating Summary 1).

Key Financial Messages - 2021 Draft Rate Supported Operating Budget and Capital Forecast

- Full cost recovery of all capital and operating costs from users of the systems achieved (no revenues from property taxation);
- Targeted rate stabilization reserves maintained at a level of 25% of rates revenue to offset any unforeseen revenue shortfalls due to fluctuating consumption or cost increases
- All capital financing principles met:
 - Planned rehabilitation/replacement of underlying infrastructure;
 - Continued focus on comprehensive performance reviews, condition assessments and inflow/infiltration studies to maximize performance and capacity of existing infrastructure;
 - Providing capacity for anticipated growth;
 - Within projected/established debt limits and sufficient capital replacement reserves to meet forecasted replacements;
- An overall increase in net costs, driven primarily by:
 - Combined overall increase in capital related costs of 1.0% (recommended to be directed 100% to water in 2021);
 - A reduction in the water operations contract of \$116,000 (County share) as the result of a change in contract from Veolia to OCWA;
 - Increased salaries, wages and related expenses of approximately \$142,810. The majority of this increase is the result of a new initiative for a Supervisor of Engineering Operations, as outlined in Operating Summary 2;
 - An increase of \$203,600 to the Hamilton Water contract as the result of increased rates and consumption;
 - Increased hydro of \$122,700 in the wastewater facilities;
 - Overall consumption increases and new users assist in reducing the net impact of the cost increases

Overall impact is a **0.4%** increase (or **\$0.37**) per month for the average residential user.

Average Monthly Residential Customer Impact (15 m3)				
	2020	2021	\$	%
Total Water	\$34.85	\$35.00	\$0.15	
Total Wastewater	\$47.52	\$47.74	\$0.22	
<u>Total</u>	<u>\$82.37</u>	<u>\$82.74</u>	<u>\$0.37</u>	<u>0.4%</u>

It should be noted that other customer’s will have slightly varying impacts depending on individual circumstances, such as: service size, monthly consumption and type of service (i.e. water only or wastewater only).

All bulk services (i.e. water depot, septic holding treatment, etc.) have been increased by 2.0% based on increases to the overall underlying costs.

The 2021 Draft Rate Supported Operating Budget and Capital Forecast is fiscally sustainable and based on sound financial principles. There are significant investments in rehabilitation/replacement of infrastructure and provisions for growth while maintaining the integrity of the water and wastewater systems. In addition, based on current projections and assumptions, water and wastewater rates should be relatively stable over the term of Council. However, it should be cautioned, that Provincial legislation can significantly impact municipal operations and senior staff will continue to monitor the political environment and lobby against changes that may impact the affordability of water rates in the Province of Ontario.

Respectfully Submitted,

Mark Merritt, CPA, CA
 Chief Financial Officer and General Manager of Financial & Data Services



EXECUTIVE SUMMARY:

The County currently develops three (3) annual budgets as follows:

- Rate Supported (Water and Wastewater) - Operating Budget (current year) and Capital Budget (current year plus 9 year capital forecast)
- Tax Supported Capital Budget (current year plus 9 year capital forecast)
- Tax Supported Operating Budget – (current year).

Council has approved the following 2021 Budget Timetable:

Draft Budget	Review Date(s)	Additional/Conditional Dates
Rate Supported Operating and Capital Budget	January 14, 2021	n/a
Tax Supported Capital Budget	March 4, 2021	March 5, 2021 (if required)
Tax Supported Operating Budget	March 31, 2021	April 1, 2021 (if required)

The review and approval of the 2021 Rate Supported Budget will provide for the applicable water and wastewater rates required to fully recover the cost of the relevant systems, as **none** of these costs are funded by property taxes. The subsequent review of the 2021 Draft Tax Supported Operating Budget will provide the basis for the 2021 levy impacts for tax supported operations.

2021 Rate Supported Operating Budget

Notable drivers in the 2021 Rate Supported Operating Budget include:

Water Operations:

- Revenue increases in New Credit and bulk water consumption and the annual fire protection charge;;
- Expenditure decreases to the water operations contract due to new contract with OCWA (previously Veolia);
- Expenditure increase in the cost for Hamilton Water based on consumption increase and rate change
- A new initiative for a Supervisor, Environmental Operations, as detailed in Operating Summary 2;
- A contribution to the Capital Replacement Reserve Fund – Water (CRRF – Water) matching the financing principles set out in Capital Summary 3.

Wastewater Operations:

- Expenditure increases to the Veolia operations as well as hydro increases at treatment plants and pumping stations;
- A new initiative for a Supervisor, Environmental Operations, as detailed in Operating Summary 2;
- A contribution to the Capital Replacement Reserve Fund – Sewer (CRRF – Sewer) matching the financing principles set out in Capital Summary 3.

As water and wastewater operations are recovered 100% from the applicable users, changes in consumption patterns can shift the burden to different users. Although setting the fixed component of the bill at 50% will assist in offsetting future shifts in consumption, approximately 25% of the County’s total water consumption is derived from 2 major industrial users (includes 4 separate locations). As a result, any fluctuations in their operations can cause large revenue shifts on the volumetric portion of the billing. Though the County’s user group is relatively small, the growth mainly related to the development in Caledonia is beginning to impact the end cost to the user, as additional customers will help spread the costs over more users. It should be noted that this growth may also result in additional costs to provide the service.

As a result of the proposed changes, the effective monthly impact on selected standard services is as follows (for bulk services – water and wastewater – based on a “per use” basis including treatment and transportation):

Monthly Services						
User			2020	2021	\$ Change	% Change
Residential (15 m3)	Water	Basic	\$ 20.24	\$ 20.38	\$ 0.13	0.7%
		Consumption	\$ 14.61	\$ 14.62	\$ 0.01	0.1%
		Total	\$ 34.85	\$ 35.00	\$ 0.15	0.4%
	Wastewater	Basic	\$ 24.86	\$ 24.60	\$ (0.26)	(1.1%)
		Consumption	\$ 22.66	\$ 23.14	\$ 0.48	2.1%
		Total	\$ 47.52	\$ 47.74	\$ 0.22	0.5%
	Total			\$ 82.37	\$ 82.74	\$ 0.37
Commercial (2" 500 m3)	Water	Basic	\$ 248.60	\$ 250.25	\$ 1.66	0.7%
		Consumption	\$ 487.00	\$ 487.34	\$ 0.34	0.1%
		Total	\$ 735.60	\$ 737.59	\$ 2.00	0.3%
	Wastewater	Basic	\$ 305.31	\$ 302.10	\$ (3.21)	(1.1%)
		Consumption	\$ 755.21	\$ 771.25	\$ 16.04	2.1%
		Total	\$ 1,060.52	\$ 1,073.35	\$ 12.83	1.2%
	Total			\$ 1,796.12	\$ 1,810.94	\$ 14.82
Industrial (4" 4,000 m3)	Water	Basic	\$ 870.09	\$ 875.89	\$ 5.80	0.7%
		Consumption	\$ 3,896.01	\$ 3,898.71	\$ 2.70	0.1%
		Total	\$ 4,766.10	\$ 4,774.60	\$ 8.50	0.2%
	Wastewater	Basic	\$ 1,068.59	\$ 1,057.36	\$ (11.23)	(1.1%)
		Consumption	\$ 6,041.70	\$ 6,169.98	\$ 128.29	2.1%
		Total	\$ 7,110.28	\$ 7,227.34	\$ 117.06	1.6%
	Total			\$ 11,876.38	\$ 12,001.95	\$ 125.57

Bulk Services (per use basis)					
User		2020	2021	\$ Change	% Change
Bulk Water (approximately 13.6 m3 or 3,000 gallons)	Potable Water Costs (County)	\$41.94	\$42.78	\$ 0.84	2.0%
	Estimated Delivery Charges (Private Hauler)	\$85.45	\$85.45	\$ 0.00	0.0%
	Total	\$127.38	\$128.23	\$0.84	0.7%
Septic/Holding (approximately 9.1 m3 or 2,000 gallons)	Treatment Costs (County)	\$133.70	\$136.37	\$ 2.67	2.0%
	Estimated Delivery Charges (Private Hauler)	\$91.57	\$91.57	\$ 0.00	0.0%
	Total	\$225.27	\$227.94	\$2.67	1.2%

The majority of the County's customers have both water and wastewater services and, for residential users, will see a slight increase in their overall monthly costs as a result of the proposed 2021 rates. Customers charged a flat rate will see a reduction, as the rate is proposed to be based on 15m³, rather than 20m³. Bulk water users, holding/septic tank customers, and other miscellaneous user rates will experience overall increases relative to the inflationary increase of 2.0% on costs for 2021.

2021 Rate Supported Capital Forecast

The County's Capital Budget process is focused on **strategic objectives** and **long term financial plans**.

The 2021 Draft Rate Supported Capital Budget focuses on the following key principles:

- Focus on Replacement/Rehabilitation
- Studies/Reviews/Evaluations
- Provide Service Capacity for Anticipated Growth

A comparison of the gross capital expenditures included in the 2021 Draft Rate Supported Capital Forecast are summarized below:

Gross Expenditures	2020 Budget	2021 Draft Budget
	Average Annual Gross Expenditures	Average Annual Gross Expenditures
Water System	\$3.8 Million	\$4.5 Million
Wastewater System	\$7.8 Million	\$8.2 Million
Total	\$11.6 Million	\$12.7 Million

As the County’s Asset Management Plan is an evolving tool, it is anticipated that staff will be better able to predict the capital requirements as they relate to the water and wastewater infrastructure, particularly in the latter years of the forecast. Details of the significant changes over the 2020-2029 Rate Supported Capital Forecast can be found in Capital Summary 1.

As the water and wastewater systems are 100% self-funded from the users, there are limited financing sources and limited customers to spread the burden of expensive project expenditures across (approximately 10,000 users in total). As the individual systems are funded specifically from the users of the relative systems (i.e. water users pay 100% of infrastructure costs related to the water system and wastewater users pay 100% of infrastructure costs related to wastewater systems), the funding sources are different for the two systems. Typically, replacements and rehabilitations, as well as enhancements to existing services and processes that are not growth related, are funded from the applicable capital replacement reserve funds. As well, 50% of the annual allocation of Federal Gas Tax is applied to water and wastewater needs. As the water capital replacement reserve fund is experiencing a significant decline in the first three years of the forecast (reaching a low of approximately \$570,000 in 2022) a significant portion of the Federal Gas Tax allocation was applied to water capital projects. All growth related projects are funded from development charges. If insufficient funds are available from DC receipts, debt will be issued, resulting in the annual debt payments funded from future development charges. Other than growth related debt, this capital forecast does not have any new proposed debt financed projects for water or wastewater projects.

INTRODUCTION/BACKGROUND:

Prudent management, as well as section 290 (1) of the Municipal Act, requires local municipalities to prepare and adopt annual estimates required for the purposes of the municipality, including amounts sufficient to pay all debts of the municipality falling due within the year, amounts required to be raised for sinking funds, and amounts required for any board, commission or other body. A budget is a guide to ensure Corporate Strategic priorities and departmental business plans are achieved. Annual budget estimates ultimately determine the County’s revenue requirements and the impact on taxation/user rates to County residents.

Legislative Framework and Budget Process:

Legislative Framework:

Haldimand County is responsible for the purification and distribution of potable water to its users and the collection and treatment of the resulting wastewater. This system is **fully funded by the users**, with no financial support from property taxes. Capital infrastructure is funded from user rates with offsetting funding from Development Charges and financial assistance from other levels of Government when available.

The Province has enacted specific legislation to ensure safe, clean and affordable potable water is available to people in every community. These regulatory requirements have significantly impacted the water and wastewater operations over time and have adversely impacted the associated rates. Increased staffing and treatment costs have been realized to accommodate the substantial workload to respond to these regulatory requirements and rigorous reporting/enforcement by the Ministry of the Environment. The legislative environment in which municipalities operate is continually evolving, inevitably placing additional constraints and pressures on resources and finances. The ideology of sustainable services and the allocation of limited resources are paramount in the budgeting decisions of all municipalities across the Province.

Although the Municipal Act provides the legislative authority for multi-year budgets, sustainable long range financing principles go beyond “multi-year budgeting” and involve the integration of long range strategic planning with service delivery plans and the appropriate annual budgets to facilitate the financial resources required.

With respect to meeting full cost recovery pricing for water and wastewater systems, past studies/surveys indicate the impacts of these legislative requirements are more dramatic on the smaller rural systems that also service large geographic areas (i.e. servicing 10,000 customers). Across the Province, there are several systems that fall into this category (i.e. there are more than 600 municipal systems across the Province that have fewer than 10,000 customers). Although Haldimand County’s water and wastewater systems have just reached over 10,000, with currently approximately 10,030 customers, the water and wastewater systems are hampered by a diverse topography and numerous independent water supply and wastewater treatment networks. These factors can negatively impact the County’s long range financial sustainability plan.

It is generally accepted that municipalities do not currently have the financial resources to fully fund the essential replacements associated with their current infrastructure needs. As such, it would take a collaborative effort by all levels of government to be committed to sustained increases in municipal infrastructure investments to ensure municipalities are providing safe, reliable and environmentally responsible services. The current underfunding of government

infrastructure investments has been commonly referred to as the “infrastructure deficit” being “*the total value of physical infrastructure investments that should have occurred to maintain optimal performance but did not. This would include any delayed rehabilitation and replacement of assets that are worn out*”. It is anticipated, through current and future asset management plans, long range funding plans will be developed to fund infrastructure replacements at the optimal time within the available resources, thereby reducing the current “infrastructure deficit”.

Rate Supported Budget Process

An integral part of the budget process is to adopt guidelines to ensure a consistent approach in developing the draft budget. The budget process is a culmination of collaborating efforts between supervisors, managers and senior staff. The budget guidelines establish the framework to develop the proposed budgetary needs to meet existing service levels, as well as identify proposed changes to these service levels. During 2013, the County completed a comprehensive Water and Wastewater Rate study to review cost allocation methodologies and recovery principles for all water and wastewater customers. This review included a series of public consultations as well as review by Council of the principles and the associated impacts on specific users of the water/wastewater systems.

The principles, as approved during the 2013 water/wastewater rate study, and as amended, continue to be utilized for preparation of the 2021 Draft Rate Supported (Water and Wastewater) Operating and Capital Budget, including:

- Full cost recovery of all operating and capital costs – recovered directly from the users of the applicable systems;
- Net costs (i.e. revenues required from rates revenue) will be recovered 50% from fixed revenues (i.e. basic charges) and 50% from variable revenues (i.e. consumption revenues);
- Leachate costs to be allocated based on relative loading at the treatment plant and recovered 50% from fixed revenues and 50% from variable revenues;
- Annual indexing of all miscellaneous revenues based on annual increase of underlying costs.

The Rate Supported Budget is scheduled to be reviewed by Council on January 14th, 2021. It is recommended that the required rate increases take effect February 1st, 2021, upon approval of the draft budget by Council.

A. 2021 DRAFT RATE SUPPORTED OPERATING BUDGET

Rate Supported Operating Process and Budgetary Constraints

The environment for water and wastewater operations is very highly regulated and monitored. The County’s treatment facilities are governed by contracts with independent operators who are qualified to meet the stringent legislative requirements. As a result, several financial pressures influence the 2021 Draft Rate Supported Operating Budget that are, to some degree, beyond Council’s control.

In addition to these external factors, there are several budgetary constraints that are unique to Haldimand County. The County operates a number of independent water and wastewater systems servicing relatively few users. With only approximately 10,030 users, the County operates four wastewater treatment facilities, four wastewater lagoons, two water treatment facilities, seven water distribution systems and eight wastewater collection systems. Though the County’s user group is relatively small, the growth mainly related to the development in Caledonia is beginning to impact the end cost to the user, as discussed further within this report. Additional customers will help spread the costs over more users, however, other factors will impact operations: increased costs for servicing more users, potential loss/reduced consumption by large scale industrial customers; and change in consumption patterns for all users.

2020 Forecasted Operating Variance

Annual rates are impacted by the net costs to be recovered by rates revenues (i.e. increases/decreases in costs or miscellaneous revenue sources). In addition, fluctuations in annual consumption can significantly impact the annual water/wastewater revenues. As a result, to mitigate these fluctuations, the fixed component of the water and wastewater billings was increased to 50% of the total estimated annual revenues starting in 2013. The emphasis on fixed revenues (“basic/base charges”) can help alleviate budget variances due to fluctuations in consumption. In addition to this, the County maintains a rate stabilization reserve for both water and wastewater to offset any unanticipated operating variances. As outlined in the draft 2021 operating budget document, the combined water/wastewater forecasted year end 2020 operating **surplus** is approximately \$1,154,500.

The following chart outlines the forecasted 2020 surplus/(deficit) for water operations:

2020 Projected Water Operating Surplus/(Deficit)	
	Surplus/(Deficit)
Revenues:	
User Rates Revenue - Regular Residential Consumption	\$123,606
User Rates Revenues - Regular Commercial Consumption	\$45,441
User Rates Revenues - Large Industrial Consumption	(\$112,860)
New Credit Water Depot and Residential	\$48,676
Bulk Water Consumption and Related Administration Fees	\$297,739
Nanticoke Industrial Pumping Station - Stelco and Imperial Oil recoveries offset by expenditures below	(\$95,515)
Miscellaneous items	\$5,062
Sub-total Revenues	<u>\$312,149</u>
Expenditures:	
Salaries, Wages & Benefits - mainly due to gapping in administration staff (project manager, supervisor)	\$146,397
Nanticoke Industrial Pumping Station - Stelco and Imperial Oil share of expenditures - mainly hydro	\$95,515
Maintenance and Repair - Supplies	\$27,904
Billing and Collecting Contract - based on 10,000 customers, which was not reached until late 2020	\$30,905
Miscellaneous Items	\$40,351
Sub-total Expenditures	<u>\$341,071</u>
Net Projected Surplus/(Deficit)	<u>\$653,220</u>

The following chart outlines the forecasted 2020 surplus/(deficit) for wastewater operations:

2020 Project Wastewater Operating Surplus/(Deficit)	
	Surplus/(Deficit)
Revenues:	
User Rates Revenue - Residential Consumption	\$154,089
User Rates Revenue - Residential Basic Charges	(\$24,647)
User Rates Revenues - Regular Commercial Consumption	(\$31,073)
User Rates Revenues - Large Industrial Consumption	\$38,387
Leachate - higher than anticipated volumes	\$124,660
Septic/Holding - increased volume due to temporary agreement for receipt of leachate from private company	\$190,429
Miscellaneous items	(\$29,288)
Sub-total Revenues	<u>\$422,557</u>
Expenditures:	
Salaries, Wages & Benefits - mainly due to gapping in administration staff (project manager, supervisor)	\$103,187
Hydro - Consumption significantly higher than budget for Cayuga, Dunnville and Hagersville wastewater treatment plants	(\$131,600)
Taxes and Local Improvements - mainly Townsend Lagoon - removed from 2021 budget	\$44,783
Billing and Collecting Contract - based on 10,000 customers, which was not reached until late 2020	\$30,906
Miscellaneous items	\$31,430
Sub-total Expenditures	<u>\$78,705</u>
Net Projected Surplus/(Deficit)	<u>\$501,262</u>

There were several items with significant 2020 variances that impact the 2021 operations as follows:

- Fluctuating annual consumption (including increases in residential consumption, with lower consumption for large industrial users)
 - Action: historical averages have been used in calculating consumption predictions, including an estimate of anticipated increases in consumption due to residential growth.
- Greater than budgeted bulk water usage:
 - Action: increases in consumption have been taken in to account in determining the estimated consumption for bulk water customers.

- Higher than budgeted leachate treatment levels;
 - Action: Leachate budget remains the same, as a Leachate Best Practices Study is currently being completed. The study findings will be considered further during preparation of the 2022 budget.
- Septic and Holding Revenues
 - Action: These surplus revenues are due to the temporary contract currently in place for receipt of leachate with a private company. As this revenue stream is not deemed to be long term, there is no impact on the 2021 budget.
- Hamilton Water Supply costs impacted by fluctuating volumes;
 - Action: The 2021 budget has been adjusted to reflect the anticipated consumption related to the Hamilton Water Supply contract, including increases based on residential growth, as well as rate changes.
- Billing and Collecting Contract;
 - Action: The 2020 budget for the billing and collecting contract was based on 10,000 customers. This customer level was not reached until late in 2020. The 2021 budget includes the projected number of customers, taking in to account future growth.
- Hydro
 - Action: Hydro consumption related to water facilities appears remain relatively consistent. Hydro consumption related to wastewater facilities appears to be increasing due to increased usage (i.e. new pumping station). This increased use has been incorporated in to the 2021 wastewater budget.
- Taxes and Local Improvements;
 - Action: Historically the County has not been billed for the taxes at the Townsend Lagoon. These costs have been removed in the 2021 budget as the County is not responsible for paying these costs.

2021 Draft Rate Supported Operating Budget Overview

The 2021 Draft Rate Supported Operating Budget, as outlined in this document, represents an overall net **increase** in total rate revenue requirements of \$393,200 or 3.13% compared to the 2020 budgeted total rates revenue of \$12.6 million: the water system requires a increase of \$146,430 or 2.54% in rates revenue; the wastewater system reflects an increase of \$246,770 or 3.63% in rates revenue. The relative impact on each system varies: a 1% impact in the water system is equal to approximately \$59,200 in user rates revenue; while a 1% impact on the wastewater system is equal to \$70,500.

The budget summary by major function is outlined below. The 2021 Draft Rate Supported Budget includes a number of impacts as discussed below, resulting in a monthly increase of approximately \$0.37 or 0.4% for the typical residential user (based on a residential service of 1" or less and average consumption of 15 m³ per month – as outlined in Operating Summary 1). Increased consumption and basic charges realized as a result of the new development (particularly in Caledonia) has assisted in keeping the increase on customers under 1% despite additional costs.

2021 Budget Drivers – Water Operations

<u>WATER OPERATIONS</u>				
	2020 Budget	2021 Budget	increase/(decrease)	
	\$	\$	\$	%
<i>Expenditures</i>				
Salaries, Wages & Benefits	1,946,730	2,033,080	86,350	4.44%
Materials	2,409,420	2,401,380	(8,040)	-0.33%
Hamilton Water Supply	2,349,600	2,553,200	203,600	8.67%
Contracted Services	590,980	601,400	10,420	1.76%
Rents & Financial Expenses	10,300	10,300	-	0.00%
OCWA Operating Services Charges	2,287,500	2,100,010	(187,490)	-8.20%
Interfunctional Adjustments	371,620	397,640	26,020	7.00%
Long Term Debt Charges	1,438,280	1,279,440	(158,840)	-11.04%
Transfers to Reserves/Reserve Funds	1,132,620	1,417,000	284,380	25.11%
Total Expenditures	12,537,050	12,793,450	256,400	2.05%
<i>Revenues</i>				
Bulk Service Charges	1,552,500	1,701,400	148,900	9.59%
General Fees	4,713,070	4,674,330	(38,740)	-0.82%
Development Charges Reserve Funds	502,320	502,130	(190)	-0.04%
Total Revenues	6,767,890	6,877,860	109,970	1.62%
-				
Net Revenues Required from User Rates	5,769,160	5,915,590	146,430	2.54%

As noted above, the overall 2021 rates revenue requirement from water users has **increased** by \$146,430 or 2.54%.

<u>Driver</u>	<u>Net Rate Revenues Impact</u>	<u>% Impact</u>
A. Base Budget (net)	(\$15,490)	(0.27%)
B. Non Rate Revenue New Initiatives	\$36,190	0.63%
C. Water Additional Capital Contribution	\$125,730	2.18%
Subtotal, Non-Rate Revenue Drivers	<u>\$146,430</u>	<u>2.54%</u>
D. Rate Revenue New Initiative	\$5,700	0.10%
Total	<u>\$152,130</u>	<u>2.64%</u>

Details of the water operations budget drivers are outlined below.

A. Base Budget Drivers (net)

As indicated above, the total base budget net operating expenditures **decrease** by approximately \$15,490. This net change is driven primarily by: increased New Credit and bulk water consumption and fire protection charges, as well as a substantial decrease in the water operating contract as a result of a change over in operations from Veolia to OCWA. The Hamilton water contract also increased substantially due to increasing consumption requirements and an increase in rates.

The major detailed net operational impacts are outlined below:

2021 Draft Water Operating Budget	
Summary of Impact of Base Budget Drivers on Rate Revenue Requirements	
Base Budget:	Increase/ (Decrease)
Revenues (excludes rate revenues):	
New Credit Water Depot and Residential - based on three year average consumption	\$37,100
Fire Hydrant Fees - 2.0% increase	\$45,430
Bulk Water - based on five year average consumption	\$99,930
Nanticoke Industrial Pumping Station - Stelco and Imperial Oil recoveries offset by expenditures below	(\$81,040)
Miscellaneous Fees & Recoveries	\$8,620
Sub-total Revenues	<u>\$110,040</u>
Expenditures:	
Salaries, Wages and Benefits	\$51,540
Nanticoke Industrial Pumping Station - Stelco and Imperial Oil share of expenditures - mainly due to reduction in OCWA contract	(\$81,040)
OCWA Operations - County share	(\$115,990)
Hamilton Water Contract - based on two year average consumption; approximately half the increase due to consumption increase and half related to rate increase	\$203,600
Interfunctional Adjustments	\$26,020
Miscellaneous Supplies & Services	\$10,420
Sub-total Expenditures	<u>\$94,550</u>
Total Base Budget Impact on Rate Revenue Requirements	<u>(\$15,490)</u>

B. New Initiatives

There are two New Initiatives for 2021, as outlined in Operating Summary 2. Overall, the net rate revenue impact of this initiative in water operations is an increase of \$41,890 (0.73%) as outlined below:

<u>Description</u>	<u>Rate Revenue Increase/ (Decrease)</u>
New Initiatives	
Supervisor, Technical Services and Waste Management	\$36,190
Water Flat Rate - Change from 20m3/month to 15m3/month	\$5,700
Total Initiatives Impact on Rate Revenue Requirements	<u>\$41,890</u>

C. Infrastructure Capital Financing Requirements

Overall, water annual capital financing related impacts on the user rates are **2.18%** in 2021. Capital related impacts include the combination of annual capital replacement reserve fund contributions and debt repayments, as outlined in Capital Summary 3. Essentially, the combined water reserve fund contributions and changes to debt repayments for 2021 increased by \$125,730. As indicated previously, it is recommended to maintain an annual combined water and wastewater rate increase of 1.0% dedicated for capital related impacts over the forecasted period, with an annual shift in additional contributions to water from wastewater phased in over 10 years. For 2021, the 1% capital contribution was directed completely to water. It is recommended that increases to these capital replacement reserve funds will end in 2024. This

plan will be revisited on an annual basis based on projected sources of capital financing and relative capital replacement reserves.

2021 Budget Drivers – Wastewater Operations

WASTEWATER OPERATIONS				
	2020	2021	increase/(decrease)	
	\$	\$	\$	%
<i>Expenditures</i>				
Salaries, Wages & Benefits	988,810	1,045,270	56,460	5.71%
Supplies & Materials	1,216,300	1,336,090	119,790	9.85%
Services	343,210	356,710	13,500	3.93%
Rents & Financial Expenses	3,300	3,300	-	0.00%
Veolia Operating Services Charges	2,601,000	2,646,100	45,100	1.73%
Interfunctional Adjustments	290,030	308,460	18,430	6.35%
Long Term Debt Charges	2,330,070	1,647,710	(682,360)	-29.28%
Transfers to Reserves/Reserve Funds	1,566,640	2,084,480	517,840	33.05%
Total Expenditures	9,339,360	9,428,120	88,760	0.95%
<i>Revenues</i>				
Bulk Service Charges	1,650,540	1,665,540	15,000	0.91%
Municipal Recoveries	53,100	50,500	(2,600)	-4.90%
General Fees	238,960	239,770	810	0.34%
Transfers from Reserves/Reserve Funds	593,220	422,000	(171,220)	-28.86%
Total Revenues	2,535,820	2,377,810	(158,010)	-6.23%
Net Revenues Required from User Rates	6,803,540	7,050,310	246,770	3.63%

As noted above, the overall 2021 rates revenue requirement from wastewater users has increased by \$246,770 or 3.63%. Detailed budget drivers are outlined below.

Driver	Net Rate Revenues Impact	% Impact
A. Base Budget (net)	\$210,580	3.10%
B. Non-Rate Revenue New Initiatives	\$36,190	0.53%
C. Wastewater Additional Capital Contribution	\$0	0.00%
Subtotal, Non-Rate Revenue Drivers	\$246,770	3.63%
D. Rate Revenue New Initiative	\$8,100	0.12%
Total	\$254,870	3.75%

A. Base Budget Drivers (net)

As indicated above, total net base expenditures increased by approximately \$210,580. Expenditure related impacts include Veolia operating impacts and hydro increases at treatment plants and pumping stations. The major detailed net operational impacts are outlined below:

2021 Draft Wastewater Operating Budget	
Summary of Impact of Base Budget Drivers on Rate Revenue Requirements	
Base Budget:	Increase/ (Decrease)
Other Revenues (excludes rate revenues):	
Miscellaneous items	\$13,210
Sub-total Revenues	\$13,210
Expenditures:	
Salaries, Wages and Benefits	\$21,650
Veolia Operations - Standard annual increase (1.73%)	\$45,100
Hydro - increase driven by consumption based on two year average use	\$122,700
Miscellaneous items	\$34,340
Sub-total Expenditures	\$223,790
Total Base Budget Impact on Rate Revenue Requirements	\$210,580

B. New Initiatives

There are two New Initiatives for 2021, as outlined in Operating Summary 2. Overall, the net rate revenue impact of this initiative in wastewater operations is an increase of \$44,290 (0.65%) as outlined below:

<u>Description</u>	<u>Rate Revenue</u>
	<u>Increase/ (Decrease)</u>
<i>New Initiatives</i>	
Supervisor, Technical Services and Waste Management	\$36,190
Wastewater Flat Rate - Change from 20m3/month to 15m3/month	\$8,100
Total Initiatives Impact on Rate Revenue Requirements	<u>\$44,290</u>

C. Infrastructure Capital Financing Requirements

Overall, wastewater annual capital financing related impacts on the user rates were **0.0%** in 2021, as the entire 1% contribution was allocated to water in 2021. Capital related impacts include the combination of annual capital replacement reserve fund contributions and debt repayments, as outlined in Capital Summary 3. As indicated previously, it is recommended to maintain an annual combined water and wastewater rate increase of 1.0% dedicated for capital related impacts over the forecasted period. It is recommended that increases to these capital replacement reserve funds will end in 2024. This plan will be revisited on an annual basis based on projected sources of capital financing and relative capital replacement reserves.

Impacts on Miscellaneous Rates

As outlined above, both water and wastewater operations are benefitted by higher charges from miscellaneous revenue sources. A comprehensive list of all fees and charges is included in Operating Appendix D – Schedules B through D, inclusive. The intent is to pass a comprehensive water and wastewater by-law that includes all water and wastewater fees, with an effective date of February 1, 2021.

The majority of the revenues derived from miscellaneous charges are the bulk processing fees (i.e. bulk water charges and bulk wastewater treatment charges – leachate, holding/septic tanks and portable toilets) and Fire Protection Charges. These fees and recovery methodologies were covered in detail in the 2013 rate study. The principles adopted as part of the rate study were based on cost allocation methodologies to ensure the users of the systems pay for the full costs of these systems. There are no planned changes to the underlying recovery methodologies in 2021.

Water Miscellaneous Revenues

Miscellaneous revenues represent approximately \$6.9 million in annual revenues for the water system, reducing the user rates revenue by a corresponding amount. These fees are broken down as follows:

- approximately \$2.1 million relates to the recovery of costs associated with the provision of non-potable water to industries in Nanticoke - it should be noted that this budget has been developed with no changes to the cost allocations under the Lake Erie industrial agreement;
- bulk water recoveries represent total revenues of approximately \$1.7 million, with the impacts on the end user outlined below;
- \$502,000 relates to development charges funding to offset related development related debt payments;
- fire protection charges represent approximately \$2.3 million which includes an increase of \$45,430 or 2.0%;
- the remaining miscellaneous fees total approximately \$298,000 and include:
 - property tax recoveries from industry of approximately \$92,000;
 - miscellaneous charges of approximately \$206,000.

These miscellaneous revenues (excluding the New Credit charge as it is covered by a specific agreement) are all proposed to reflect an annual inflationary increase of 2.0% (rounded where applicable), based on the underlying increase in the associated costs to provide these services (subject to the annual budget review).

Ultimately, if the proposed miscellaneous charges are not adopted, the rates to other users of the systems will have to be increased to offset the resulting reduction in revenue.

The following summarizes the proposed changes for bulk processing fees:

(i) Bulk Water Charges

Historically Bulk Water charges were based on the methodology outlined in the County's 2013 rate study as approved by Council. The methodology included both a "fixed" component and a variable component. Due to the fluctuations in consumption within this user group, the related rate had been fluctuating in recent years. In order to maintain a level of predictability to these rates, Council adopted a change as part of the 2018 budget to provide for the indexing of the bulk water cubic meter rate based on the underlying cost increases (2.0% for 2021), which is the same approach taken with respect to the septic and holding tank customers a few years ago in order to achieve rate consistency. The proposed 2021 monthly fee is \$17.97 which represents a 2.0% **increase**. The monthly administration fee will continue to be billed to all customers with consumption in the applicable month. The majority of the revenues generated from these charges relate to commercial water haulers.

For reference purposes, a history of the bulk water rate is included below:

	2013	2014	2015	2016	2017	2018	2019	2020	2020
Bulk Water Rate (per m3)	\$3.02	\$2.96	\$2.93	\$2.96	\$2.89	\$2.94	\$3.00	\$3.08	\$3.14

The proposed per load impact on a “typical end user”, based on the assumptions noted below, is as follows:

Bulk Water Rate	2020 Rate	2021 Rate	Change	
<i>(per cubic metre)</i>			<i>(\$)</i>	<i>(%)</i>
Controlled by Haldimand County				
Bulk Water Rate (charged to hauler)	\$3.08	\$3.14	\$0.06	2.0%
Monthly Administration Fee (charged to hauler)	\$17.62	\$17.97	\$0.35	2.0%
Per Load Impact on "Typical End User" (13.6 m3 or 3,000 gallon load)				
Water Commodity (determined by Haldimand County)	\$41.94	\$42.78	\$0.84	2.0%
Estimated hauler delivery charge (determined by hauler)	\$85.45	\$85.45	\$0.00	0.0%
Total "End User" estimated cost	\$127.39	\$128.23	\$0.84	0.7%

The following assumptions were used in the above chart: average load is 3,000 gallons (i.e. approximately 13.6 cubic metres); no change in the hauler’s delivery charge; and excludes any allocation of administration fee. It should be noted that a customer using one load of 3,000 gallons per month would be equivalent to the County’s annual average of 13.6 cubic metres for potable water supplied directly to metered water residents (i.e. typically urban residents). Additionally, rural customers have the ability to reduce their required purchases of water by capturing rainwater for personal use (typically not available to urban residents). In wet seasons, this has the potential of significantly reducing the need to purchase water directly from water haulers.

Wastewater Miscellaneous Revenues

Miscellaneous revenues represent approximately \$2.4 million in annual income for the wastewater system which helps reduce the impact on user rates revenue. These fees are broken down as follows:

- approximately \$1.5 million relates to the leachate treatment cost recovery. The 2021 budget reflects no change in this revenue source as a Leachate Best Practices Study is currently being completed, and the study findings will be considered during preparation of the 2022 budget. As the majority of the costs are allocated based on loading, it is anticipated as leachate strength and volumes decline after the closure of Tom Howe, that these revenues will decline. The associated loading and allocation of costs will be monitored in future years to ensure appropriate costs allocations;
- the holding/septic tank treatment charges total approximately \$188,700. This is a increase of \$15,100 in aggregate due to a proposed increase of 2.0% in the per cubic meter rate and what appears to be the evening out of volumes after a number of years of declining volumes (see analysis of impact on end user below).
- \$422,000 relates to development charges funding to offset related development related debt payments;
- the remaining miscellaneous fees total approximately \$289,300 and include:
 - “overstrength” charges established under the Sewer Use By-law of \$160,700;
 - sludge storage charges to Norfolk County of approximately \$50,500;
 - miscellaneous charges of approximately \$78,100;

The miscellaneous fees reflect an inflationary increase of 2.0% (rounded as required), based on the underlying increase in the associated cost to provide these services (subject to the annual budget review).

(i) Holding/Septic/Portable Toilet Tank Treatment Charges

As approved by Council during the 2013 rate supported budget review, the recovery methodology for holding and septic tank treatment cost allocation is to allocate the full operating costs associated with these services to the applicable users. Similar to other fixed/miscellaneous fees, it is recommended to increase the “fixed” monthly charge to \$17.97 or 2.0%. The volumetric rates apply equally to all septic, holding tank and portable toilet waste treated at the County’s facilities.

When the rate study was approved, Council amended the proposed recovery methodology to exclude specific capital costs associated with this service. As a result, there were no funds to replace any capital failures/repairs/maintenance which will impact the County’s ability to provide this service in the future. During the 2015 budget review, Council evaluated options to continue to provide this service and recover the full costs associated therein (i.e. recovery of capital replacement costs) to ensure the sustainability of this service. From this review, Council approved the closure of the Caledonia septage receiving station and recovery of capital costs at the Dunnville receiving plant to provide the necessary capital funding to sustain this service into the future. In addition, all future rates will be indexed similar to other miscellaneous fees.

Based on Council’s recommendation, the 2021 holding/septic tank rates have been increased by 2.0% similar to other miscellaneous fees. Due to an increase in volumetric rates, coupled with an increase in volumes, the annual revenues are expected to increase by \$15,100 Holding/septic volumes treated on an annual basis declined steadily from 2010 to 2016 (from a high of 24,000 cubic meters to a low of approximately 9,000 cubic metres). Over the past few years, volumes have rebound, with a four year average volume utilized for the projected 2021 volumes of approximately 12,595 cubic metres.

The impact on the holding/septic tank rates for 2021 is as follows:

<u>Holding/Septic/Portable Toilet Tank Treatment Charge</u>	<u>2020</u>	<u>2021</u>	<u>Change</u>	
<i>(per cubic metre)</i>			<i>(\$)</i>	<i>(%)</i>
Controlled by Haldimand County:				
Proposed Rate (charged to hauler)	<u>\$14.71</u>	<u>\$15.00</u>	<u>\$0.29</u>	<u>2.1%</u>
Monthly Administration Fee (charged to hauler)	<u>\$17.62</u>	<u>\$17.97</u>	<u>\$0.35</u>	<u>2.1%</u>
Per Load Impact on "Typical End User" (9.1 m3 or 2,000 gallon load)				
Treatment Cost (determined by Haldimand)	\$133.70	\$136.38	\$2.67	2.0%
Estimated hauler delivery charge (determined by Hauler)	<u>\$91.57</u>	<u>\$91.57</u>	<u>\$0.00</u>	0.0%
Total "End User" cost	<u>\$225.27</u>	<u>\$227.95</u>	<u>\$2.67</u>	<u>1.2%</u>

The proposed administration and treatment fees are paid by all customers that discharge holding tank/septic/portable toilet waste to County treatment facilities. As this represents only a handful (approximately 4) of commercial haulers, the cost to the end user (i.e. household) includes additional haulage charges. To determine the per use impact on the "typical end user" (i.e. predominantly rural residents), the following assumptions were used: average load is 2,000 gallons (i.e. approximately 9.1 cubic metres); and an estimated delivery charge of \$91.57. The impacts on specific users will vary considerably based on the number of times a year this service is required.

Impacts on Rates

Water and wastewater rates are impacted by the net revenue requirements, as well as the anticipated consumption by the affected users. As a result, although additional revenues may not be required, anticipated consumption can increase/decrease the relative rates correspondingly (i.e. increased consumption will decrease rates; decreased consumption will increase rates). Given there are different users of each system (i.e. there are approximately 98 water only customers and approximately 89 wastewater only customers), the funding of these two systems must remain autonomous.

For 2021, the water users are required to generate approximately \$5.9 million, which represents an increase in water rate revenue requirements of 2.54%. These revenues are collected by a combination of base water fixed fees and volumetric consumption charges per cubic metre consumed. One of the principles adopted as part of the rate study was to increase the relative portion of the "fixed"/base fees. As the costs of the systems are approximately 50% fixed, the fixed component of the billing is set at 50% of the total revenues. This fixed component will help to offset any fluctuations in revenues due to shifts in annual consumption patterns.

The required rate revenue for the wastewater users is approximately \$7.1 million in 2021, representing an increased requirement of 3.63%. Similar to water customers, these revenues are recovered through a combination of basic wastewater charges and volumetric charges based on the water consumed (other than those users that qualify for the Wastewater Discharge Program – which allows for billing based on a wastewater meter). The fixed component is also set at 50% of the total rate revenue requirement. As there are several customers with water service but no corresponding wastewater service (particularly large industrial and commercial customers), the rate model compensates for these deviations.

As water and wastewater operations are recovered 100% from the applicable users, changes in consumption patterns can shift the burden to different users. Although setting the fixed component of the bill at 50% will assist in offsetting future shifts in consumption, approximately 25% of the County's total water consumption is derived from 2 major industrial users (includes 4 separate locations). As a result, any fluctuations in their operations can cause large revenue shifts on the volumetric portion of the billing. The following outlines the estimated consumption for 2021:

Water Customers and Consumption Comparison

	<u>2020</u>				<u>2021</u>			
	<u>Forecast</u>		<u>Budget</u>		<u>Budget</u>			
	<u>Users</u>	<u>%</u>	<u>Consumption</u>	<u>%</u>	<u>Users</u>	<u>%</u>	<u>Consumption</u>	<u>%</u>
Residential	9,256	90.59%	1,424,814	40.47%	9,333	90.83%	1,482,570	40.67%
Commercial/Industrial	673	6.59%	611,996	17.38%	673	6.55%	636,244	17.45%
Large Industrial	4	0.04%	924,763	26.27%	4	0.04%	915,750	25.12%
Subtotal	9,933	97.21%	2,961,573	84.12%	10,010	97.42%	3,034,565	83.24%
Bulk Water	285	2.79%	378,993	10.76%	265	2.58%	404,273	11.09%
New Credit Wholesale			104,744	2.97%			126,733	3.48%
New Credit Depot			75,530	2.15%			80,190	2.20%
Total	10,218	100.00%	3,520,839	100.00%	10,275	100.00%	3,645,761	100.00%

Wastewater Customers and Consumption Comparison

	2020				2021			
	Forecast		Budget		Budget			
	Users	%	Consumption	%	Users	%	Consumption	%
Residential	9,101	93.04%	1,453,506	63.25%	9,178	93.09%	1,487,971	63.76%
Commercial/Industrial	674	6.89%	469,366	20.43%	674	6.84%	460,232	19.72%
Large Industrial	3	0.03%	329,352	14.33%	3	0.03%	337,411	14.46%
Subtotal	9,778	99.96%	2,252,224	98.01%	9,855	99.96%	2,285,614	97.94%
Septic/Holding	4	0.04%	11,811	0.51%	4	0.04%	12,595	0.54%
Leachate		0.00%	33,820	1.47%			35,381	1.52%
Total	9,782	100.00%	2,297,855	100.00%	9,859	100.00%	2,333,590	100.00%

The number of customers for budgeting purposes reflects the totals from an in-year review, with an incremental increase related the known development coming on in 2021.

Similar consumption projections were utilized for wastewater customers with corresponding reductions for large industrial customers (one of the large industrial customers has water only and operates its own wastewater lagoon).

The resulting 2021 water and wastewater user rates are included in Operating Appendix D in this budget document. The proposed rates would be effective on all billings for consumption **effective February 1, 2021**. The intent is to implement rate changes as early in the year as possible to provide the users with a more predictable increase (i.e. one rate increase at the beginning of each year). Additionally, this would provide the flexibility to change the rates during the year to offset anticipated in-year shortfalls as the case may be.

B. 2021 DRAFT RATE SUPPORTED CAPITAL BUDGET AND FORECAST TO 2030

Capital Budget Process/Principles

The County’s Capital Budget process has been focused on **strategic objectives** and **long term financial plans**. This process provides direction to management when identifying infrastructure needs and implementing a long range financial plan that is sustainable. The County completed a comprehensive Asset Management Plan (AMP) in early 2014 for the following asset categories: roads, bridges/culverts, storm sewer, water and wastewater. The plan included the required annual reserve contributions based on the anticipated cost and timing of replacement of the assets in these categories. This plan identified some funding shortfalls, in particular, water and wastewater had an annual deficit of approximately \$700,000 (primarily in water). Although this plan was approved in early 2014, it is anticipated to change/evolve over time. The results of both the rate study and AMP will help refine the current long range plan which continues to provide the fundamental basis for the ten year capital forecast.

The 2021 Draft Rate Supported Capital Budget focuses on the following key principles:

- ***Focus on Replacement/Rehabilitation:*** Focus on replacement/rehabilitation projects that support the overall objectives of the system and long range infrastructure plan. Using the comprehensive inventory of our current infrastructure needs, a long range financing strategy can be implemented to ensure the system is financially sustainable and affordable.
- ***Studies/Reviews/Evaluations:*** Continue comprehensive performance evaluations and condition reviews of the facilities. These evaluations and studies provide the basis for determining future infrastructure needs as well as the timing of these requirements. By identifying physical or operational “bottlenecks”, operational and capital plans can be put in place to address these issues. Also, continued inflow and infiltration (I/I) studies/reviews are planned to identify sources of extraneous flow. These studies will assist in identifying areas of concern to provide additional future capacity and delay costly infrastructure upgrades/replacements (as well as address lost water management – a component of pending legislative requirements under the Water Opportunities Act).
- ***Provide Service Capacity for Anticipated Growth:*** Provide the necessary new/upgraded infrastructure at the critical timelines identified in the long range infrastructure plan based on existing capacity and future needs. This provides a more realistic opportunity to develop a financial plan that is affordable to the rate payers. The ten year forecast focuses on replacement of existing infrastructure but given the substantial growth that is anticipated over the next 10 years, there are a significant number of growth related projects, particularly for wastewater infrastructure, within the draft 10 year capital forecast which are to be funded in part from the applicable development charges reserve fund (i.e. approximately 64% of the required funding over the ten year forecast is budgeted from development charges, primarily influenced by the need for additional wastewater service capacity in Caledonia).

Gross Capital Costs Overview

Based on the aforementioned guidelines and principles, the total gross capital expenditures (for the combined water and wastewater systems) are approximately \$127.5 million for the period 2021 to 2030. Relative to the approved forecast in 2020, this represents a **increase** of approximately \$11 million over the ten year forecast (this increase is due a few large project changes in Caledonia including the addition of two sewage pump station forcemain extensions, addition of twinning of 450mm water main on Highway 6, as well as price increases related to the elevated storage tank replacement). Typically gross capital costs decrease significantly in the later part of the forecast. As a result, some non-specific capital costs have been identified in these later years (primarily years 5 through 10). The specifics of these projects will be identified as better replacement information is developed through updates to the County’s asset management plan in future years.

Although the current annual capital requirements are realistic and manageable, given the current customer base, there are replacements, not currently within the current 10 year forecast, that require a long range plan to address the associated financial impacts. A long range financial plan to address the replacement of current water and wastewater infrastructure was included as part of the 2013 rate study (the principles from which form the basis for the 2021 Capital Budget and Forecast). As indicated below, there are fairly consistent average gross costs relative to the prior year’s approved budget over the 10 year forecasted period.

Gross Expenditures	2020 Budget Average Annual Gross Expenditures	2021 Draft Budget Average Annual Gross Expenditures
Water System	\$3.8 Million	\$4.5 Million
Wastewater System	\$7.8 Million	\$8.2 Million
Total	\$11.6 Million	\$12.7 Million

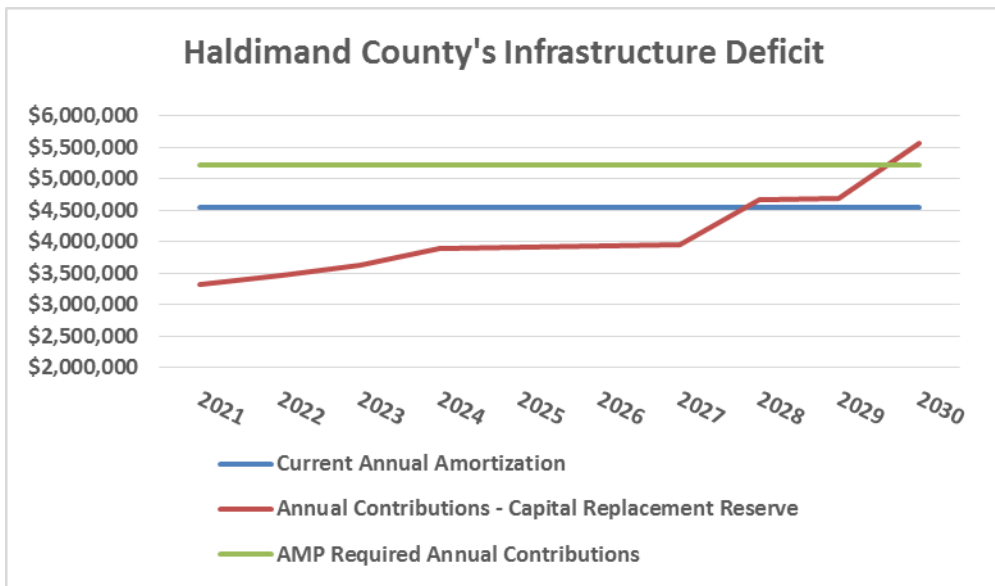
Estimated Haldimand County Water/Wastewater “Infrastructure Deficit”

It is generally accepted that municipalities do not currently have the financial resources to fully fund the essential replacements associated with their current infrastructure needs. The County’s current capital asset inventory, as reported for audited financial statement purposes, reflects the historical value of the assets, less the accumulated amortization (i.e. value used/utilized over its useful life to date). The resulting “Net Book Value” (NBV = historical cost less accumulated amortization) represents the remaining value of the asset over its remaining useful life. The net book value of assets, as a % of historical cost, is a good financial indicator of the state of good repair of the County’s infrastructure – the lower the percentage, the greater percentage of infrastructure that is nearing its replacement/end of useful life. Based on the audited 2019 financial statements, the County’s net book value of assets for water and wastewater only (excludes tax supported infrastructure) was as follows:

2019 Net Book Value <i>(water and wastewater assets only)</i>	Haldimand
Historical Cost	\$229,480,637
Net Book value	\$145,522,828
Percentage	63.4%

The County’s NBV as a % of historical cost has remained relatively constant from 2009 to 2019, ranging with a low of 63.4% to a high of 67.6% (this information has only been reported in the County’s financial statements since 2009). As the indicator is fairly stable, it provides for the conclusion that capital asset investments have kept pace with the utilization of existing assets in relative terms. The Province completes an annual “Financial Indicator Review” of Ontario municipalities which Haldimand is grouped with 28 single tier municipalities in southern Ontario, ranging in size, but excluding Toronto. This review notes our 2018 Asset Consumption Ratio (the extent to which depreciable assets have been consumed) at 48.3% for all asset categories, compared to the average of 41.9% for our comparator municipalities. Lower numbers indicate newer infrastructure, and a ratio under 50% is considered low risk by the Province. Ultimately, as assets age and near the end of their useful life, the County needs to develop a long term financial plan to meet these requirements.

As noted previously, the County completed a comprehensive Asset Management Plan (AMP) in 2014 for the following asset categories: roads, bridges/culverts, storm sewer, water and wastewater. The plan included the required annual capital reserve contributions based on the anticipated cost and timing of replacement of the underlying assets in these categories. This plan identified significant annual funding shortfalls, particularly in the roads/bridges and water categories. By utilizing the information from the AMP, an “**estimated** infrastructure deficit” can be calculated for the County’s water and wastewater infrastructure. Although based on incomplete information (not every single asset is reported for financial reporting purposes) and several assumptions, it provides an indication as to whether the County is currently providing sustainable capital funding to replace the current infrastructure.



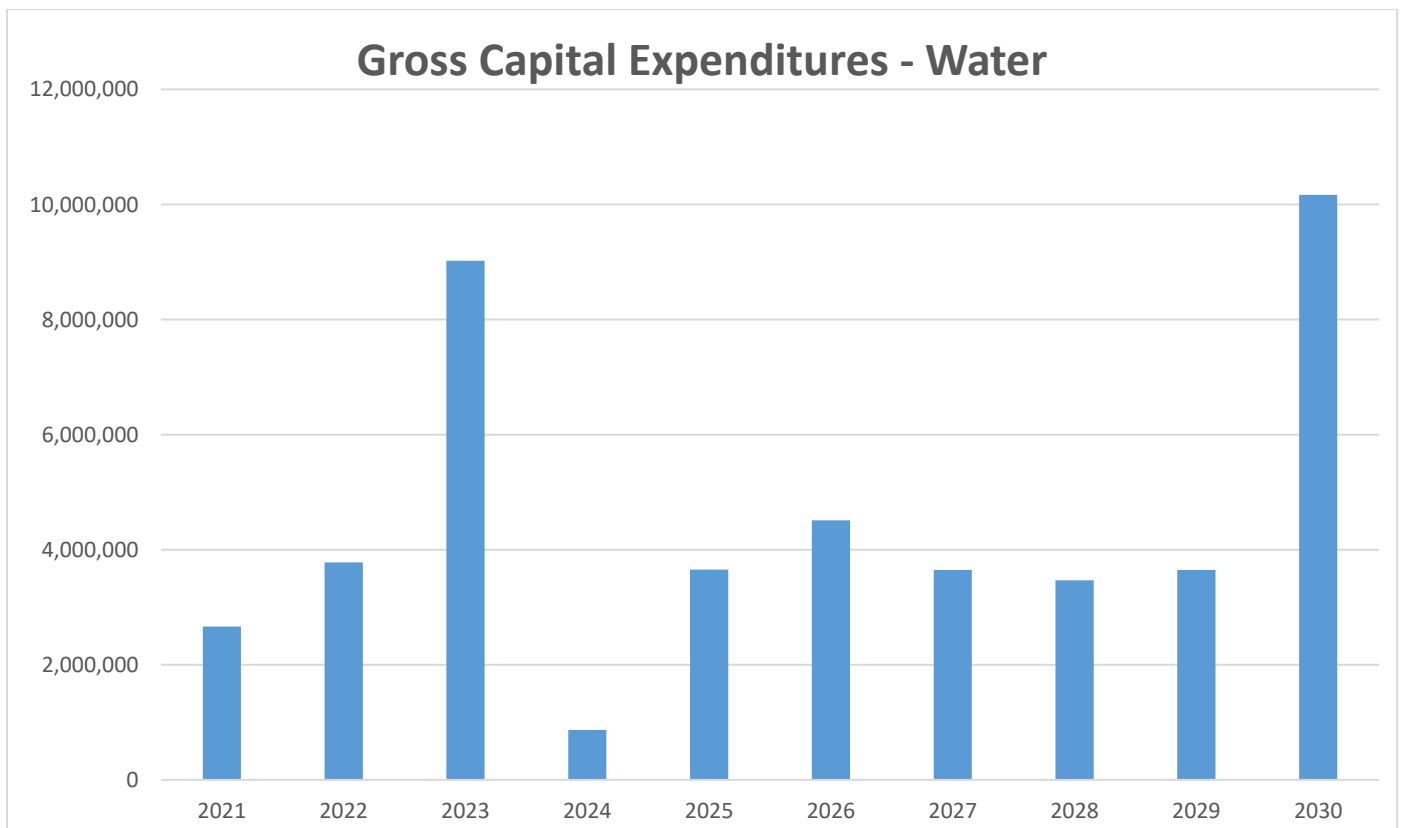
Note: increased contributions in 2028 are due to the final payments on debt that was issued in 2017; further increases in 2030 are due to final payments on debt that was issued in 2019.

Although the above information is based on several assumptions (i.e. rate of inflation, interest earnings on applicable reserves, estimated useful life, anticipated debenture issuances, etc.), it is a good indication that there are future funding issues to be addressed in order to fully finance future asset replacements. As capital contributions are the sum of debt payments and capital reserve contributions, increased debt payments limit the ability to increase annual reserve contributions (as is the case in years 2021 through 2022). The asset management plan for water and wastewater also indicates a funding shortfall averaging approximately \$700,000 over the forecast period (particularly in water). These estimates provide a fundamental basis to assist in developing future sustainable funding plans that can be evaluated and monitored.

Water Gross Capital Costs:

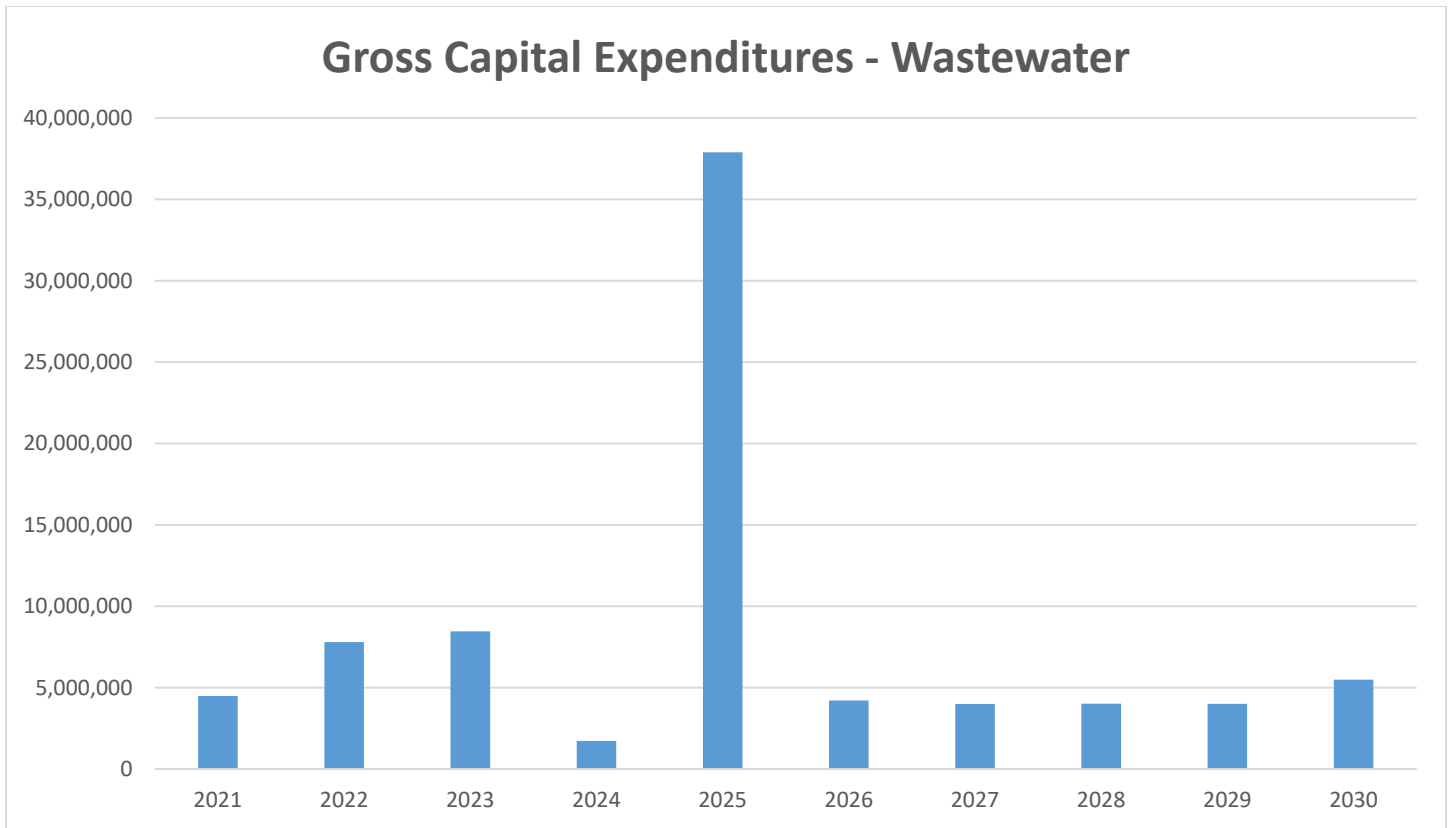
A summary of the planned gross capital costs for Water services is presented in the chart below. Although there are limited overall changes, there are shifts in timing/scope changes for projects that will affect the long range financing plan. As it is more difficult to predict long term needs, fewer specifically identified projects are scheduled in the final 6 years of the forecast. More detailed inventory and continued studies will better identify the timing of these related projects. Specifics of some of the identified water system capital projects are as follows:

Average annual costs water projects are approximately \$4.5 million. Annual fluctuations would reflect growth related projects funded from Development Charges or one-time significant replacements. Due to the growth in Caledonia there are a few changes to projects in water capital forecast, including the addition of a project identified in 2026 involving twinning of a 450mm water main on Highway 6 (\$1.6 million), as well as an increase in projected costs for the elevated storage tank replacement in Caledonia (\$2.8 million) in order to incorporate decommissioning and demolition of the existing standpipe and changes in requirements for the new standpipe design. As these projects are all a result of the growth in Caledonia, they are in turn funded from Development Charges.



Wastewater Gross Capital Costs – The details of some of the wastewater capital projects are as follows:

Average annual wastewater project costs are approximately \$8.2 million. Planned for the last half of the ten year forecast is also the new/upgraded Caledonia Wastewater Treatment Plant at a total cost of \$46 million over the years 2019 to 2025 (funded fully from Development Charges). As discussed, it is anticipated based on current growth in the Caledonia area, that a new/enhanced WWTP will be required to cope with the increased wastewater flows in that area. New projects were also added in 2026 related to a forcemain extensions for the McClung Sewage Pump Station (\$1.25 million) and the Nairne Street sewage pump station. Again, these additions relate to the development in Caledonia and are fully funded from Development Charges.



Financing Methodology

There are limited financing sources available to the County to fund the necessary infrastructure replacements. As the water and wastewater systems are 100% self-funded from the users, there are limited customers to spread the burden of expensive project expenditures across (approximately 10,030 users in total). As the individual systems are funded specifically from the users of the relative systems (i.e. water users pay 100% of infrastructure costs related to the water system and wastewater users pay 100% of infrastructure costs related to wastewater systems), the funding sources are different for the two systems. The sources of financing for specific projects depend on the availability of funds and the nature of the capital projects. A long range plan was developed independently for water and wastewater infrastructure needs based on the 10 year forecasted costs. As a result, the focus of the 2021 Draft Rate Supported Capital Budget and Forecast is **financing**, meaning there are **no** capital projects financed directly from rates. These principles are a major step towards sustainability and lifecycle costing of infrastructure needs – it is the first step in moving from a “cash basis” to an “accrual basis” of funding.

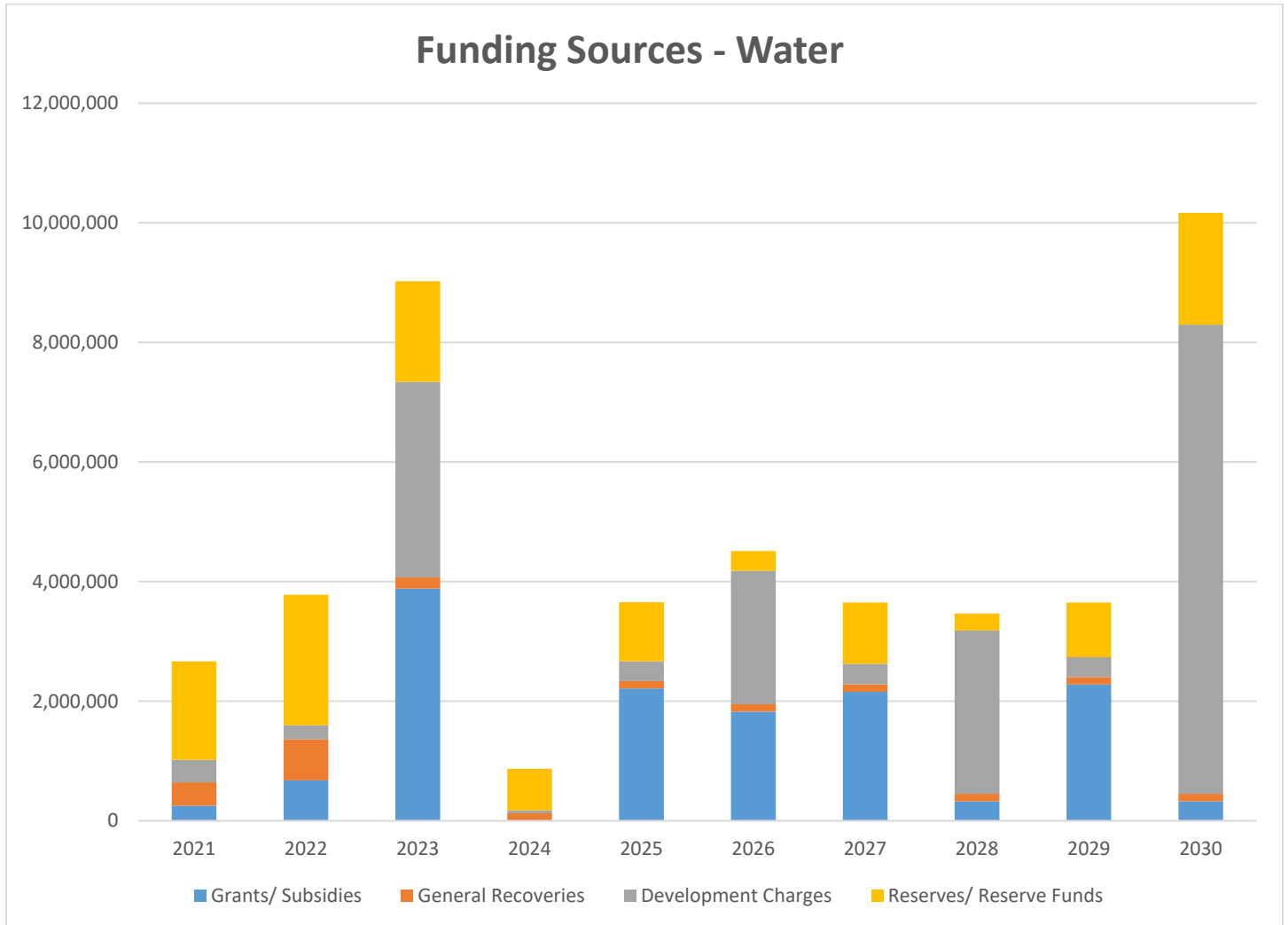
Typically, water and wastewater capital projects are funded in specific ways, depending mainly on whether the expenditure is for replacement or enhancement, as follows:

Replacements/Rehabilitation – These projects are typically financed from the applicable capital replacement reserve (i.e. water and wastewater respectively). Where sufficient reserves are not available, these projects must be debt financed. When available, external sources of financing will be utilized, including grants, recoveries from joint partners or developer contributions. The County’s Capital Financing Principles allocate 50% of the annual Federal Gas Tax funds, Capital Appendix D, to water or wastewater replacements; plant upgrades and the meter replacement program. In addition, master plan studies are funded from the development charges reserve funds as identified in the development charges background study. Replacements at water plants for capital works specific to supplying non-potable water to industry is recovered 100% from the industries supplied by this infrastructure. As outlined in the chart below, the majority of financing over the forecasted period for replacements is funded from the applicable reserve fund (i.e. water or wastewater) and from an allocation of annual Federal Gas Tax grant funding. There is no new debt for replacement/upgrades related to major water/wastewater treatment plant capital projects over the forecasted period.

Plant Upgrades/Enhancement Projects: Typically, these projects are financed from external revenue sources. Enhancements to existing services/processes, not growth related, are internally financed. Development charges are collected for specifically identified projects. External sources of funds may be available as new grants are made available or third party groups partner with the County to initiate these activities. The County currently does not have an established predictable source of new funding for these initiatives other than the development charges collected on the specifically identified projects.

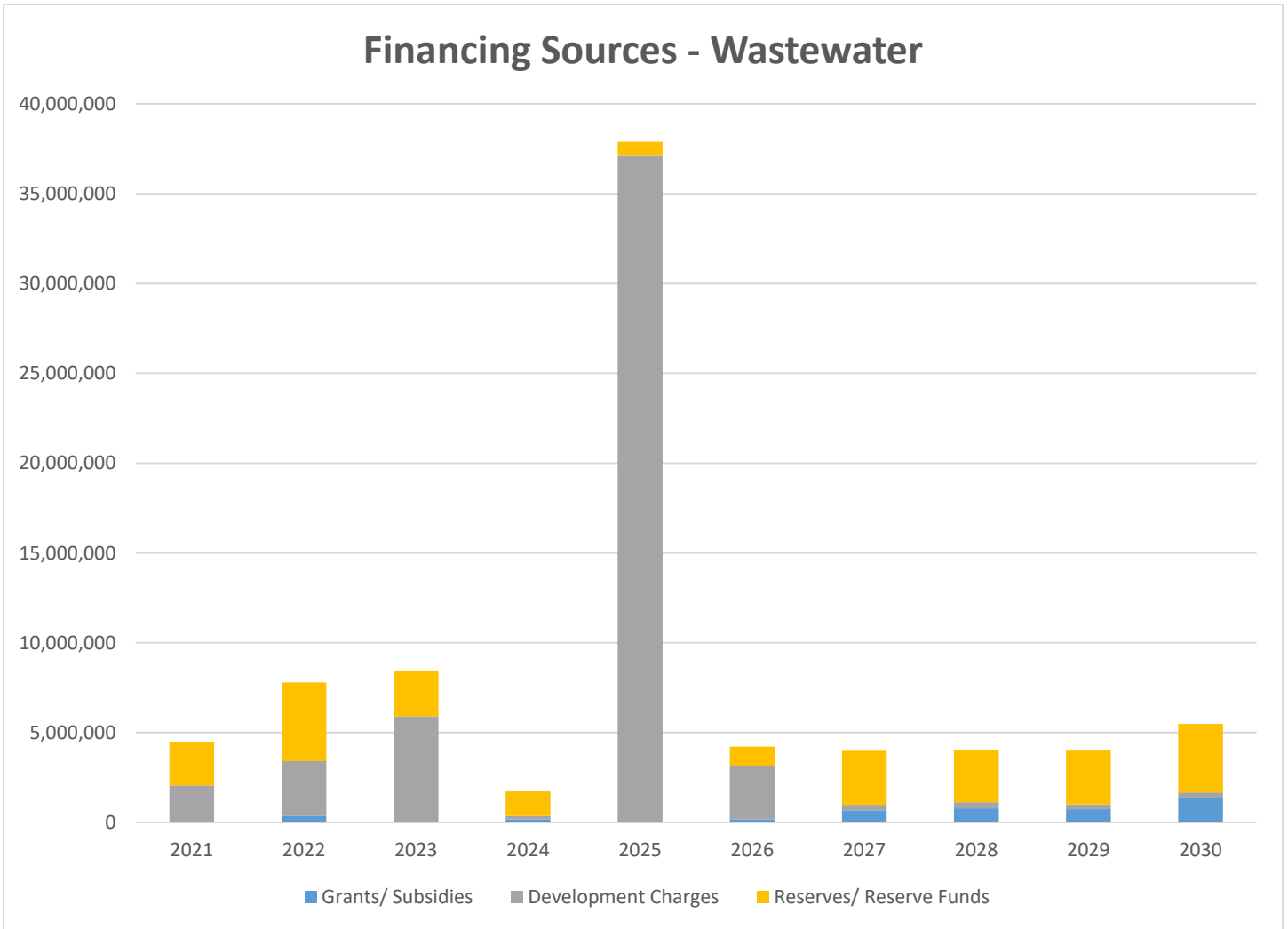
Funding Sources

Funding Sources – Water Projects: As depicted below, the much of funding for water capital projects is from water development charges (39%). The Water capital replacement reserve fund represents the next largest portion totalling 26%, followed by Federal Gas Tax grant funding totaling 31%. There have been no announcements regarding grant funding on a go forward basis, therefore no future funding is included within this forecast. The general recoveries are related to contributions for capital works undertaken on behalf of industries supplied with raw water from Nanticoke or Port Maitland. These projects are primarily funded 100% from the applicable industries utilizing this infrastructure.



Funding Sources – Wastewater: As depicted below, the much of funding for replacement wastewater capital projects is from the wastewater capital replacement reserve fund (in aggregate, approximately 31% of total funding over the forecasted period). Grant funding (i.e. Federal Gas Tax) represents approximately 5% of the annual funding. Use of Development Charges for wastewater financing is substantial and represents approximately 64% of total projects financing. As mentioned, the main driver of the significant development charges financing for wastewater projects is as a result of the inclusion of a second wastewater treatment plant in Caledonia in the amount of \$46 million (which is fully financed by Development Charges over the ten year forecast period).

Financing Sources - Wastewater



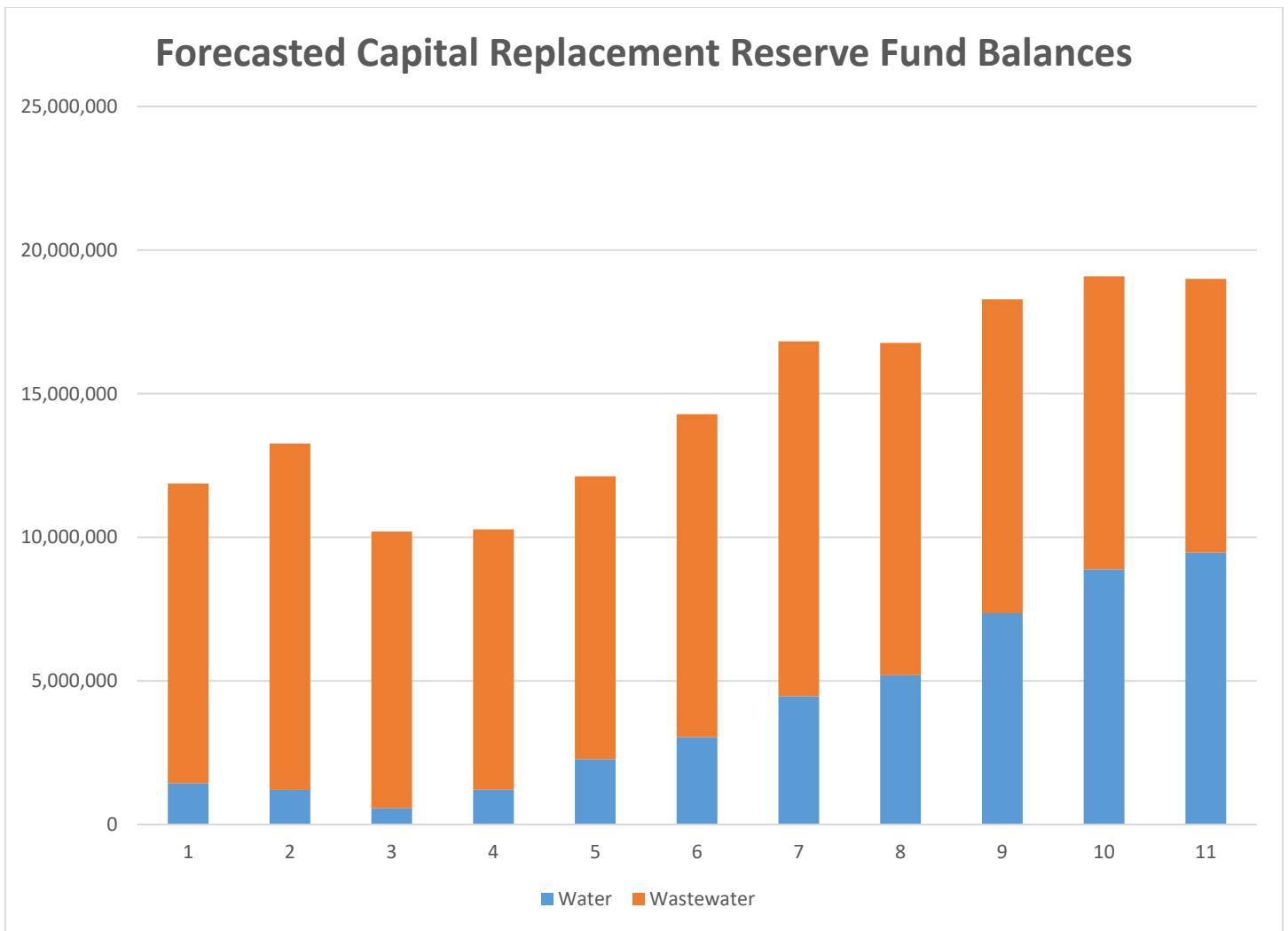
Grant Funding

As indicated above, the only predictable grant funding is the County’s annual Federal Gas Tax Allocation (our current allocation is approximately \$2.77 million per year). As outlined in the capital financing principles, 50% of the annual allocation is applied to water/wastewater capital needs. Of the approximately \$18.2 million allocated to water/wastewater capital projects over the forecast period, \$13.9 million is allocated to water and \$4.3 million is allocated to wastewater. As there is currently a funding deficit in water; more Gas Tax funds have been allocated to the water system. Currently there is no other grant funding included in the rate supported capital forecast. If an application to the Green fund is put forth and approved, this will impact the County’s long term financial plan, as any related project has not been budgeted for, and any funding that the County will be responsible for has not currently been captured in the forecast as presented.

If additional grant funding is available in future years, staff will need to reassess the allocation principles for the Federal Gas Tax funds, between water and wastewater and tax supported capital needs, in conjunction with the asset management plans and revised funding needs.

Impacts on Reserves and Reserve Funds

As noted above, reserves and reserve funds are a critical component of a municipality’s long-term financing plan and represent the major financing source for projected future capital projects. Included in the appendices is a summary of the water and wastewater capital replacement reserve funds. Income for these funds is derived from the County’s rate supported operating budget and is used to fund the proposed capital projects included in the 2021 Draft Rate Supported Capital Budget and Forecast to 2030. The following chart outlines the projected balance of the water and wastewater capital replacement reserve funds (impacts on the development charges reserve funds are described in more detail later in this report).



The capital financing principles approved by Council, included in Capital Appendix A, require the respective reserve funds to remain positive over the forecasted period. In addition, any particular year’s deficit cannot exceed 25% of the annual contributions to the respective reserve. As outlined in the graph above, the projected balances in the water and wastewater capital replacement reserve funds meet the financial principles outlined above. Although the water capital replacement reserve fund reaches a critically low balance in 2022, it does rebound in subsequent years. A more comprehensive asset replacement program is required in future years to identify specific financing needs so that the impacts on the capital replacement reserve can be re-evaluated at that time.

As identified during the 2014 Rate Supported Budget, the water capital replacement reserve was violating the above noted financing principles. As a result, staff proposed a shift in contributions to capital replacement reserves from wastewater to water, to be phased in over 10 years starting in 2014, as identified in Capital Summary 3. Overall, annual capital related impacts on the user rates were held to approximately \$125,730 or 1.0% of combined rates revenue per year. The impact in 2021 specific to water is \$125,730 or 2.2%, with 0% being allocated to wastewater, as the funds are currently required to fund the water capital replacement schedule. Staff will further review the need for this additional 1% contribution to capital, prior to the estimated end of the program in 2024.

Capital related impacts include the combination of annual capital replacement reserve fund contributions and debt repayments. As outlined in Capital Summary 3, It is recommended that increases to these capital replacement reserve funds continue until 2024, subject to annual review, to offset the anticipated future disbursements, particularly for water. The annual shift in additional contributions to water from wastewater has been phased in over a number of years but limited to a cumulative annual rate increase of **1.0%**. Similar to the allocation of Federal Gas Tax, if future predictable grants are available for water/wastewater infrastructure projects, this reallocation will need to be re-evaluated.

Development Charges (DC)

During the comprehensive update to the Development Charges By-law in 2018/2019, detailed capital projects and the relative growth related proportions were identified. Incorporated in this analysis is the financing of these requirements over the next 10 and 20 years (10 years for parking, leisure, library, general government, cemeteries and ambulance services; 20 years for roads/bridges, fleet, fire services, water/water and storm sewer). As a result, the projects included in the 2021 Rate Supported Capital Budget and Forecast include the projects outlined in the Haldimand County Development Charge Background Study, dated March 5, 2019 with the exception of a few newly identified projects that will be included in the next DC Background Study in 2024.

In aggregate, there is \$17.7 million of growth related water capital projects to be financed from development charges, including:

- Caledonia Elevated Tank – approximately \$3.4 million;
- Twinning of Water Main on Highway 6 and Haldimand Road 66 – approximately \$3.1 million;
- Caledonia North Water Storage Upgrades – approximately \$7.8 million;
- Dunnville WTP reservoir expansion – approximately \$1.8 million; and

- the majority of the balance represents estimated costs related to future replacements/plant upgrades yet to be identified.

Wastewater capital projects includes approximately \$5246 million funded from development charges, including:

- The new/upgraded Caledonia WWTP in the amount of approximately \$46.1 million;
- Gravity Sewer Main Upsizing in Caledonia – approximately \$433,000;
- McClung and Nairne Street Sewage Pump Station Forcemain Extensions and McClung Sewage Pump Station Upgrades – approximately \$2.8 million;
- Cayuga Ouse St Pump Station Replacement and Forcemain Twinning – approximately \$416,000;
- Grit Removal System at the Hagersville Wastewater Treatment Plant – approximately \$330,000; and
- The remaining balance of the Wastewater DC projects are distributed throughout the 2021 ten year capital forecast.

During the setting of the development charges rates in 2018/2019, the anticipated timing of receipts in relation to infrastructure needs was evaluated. As a result, it was anticipated that certain development charges reserve funds would be “negative” over the period covered by the current rates. These shortfalls would be offset by growth related borrowing, Development Charge Debt (DC Debt), which would ultimately be collected from future development charges as these costs are fully self financed. A summary of the water and wastewater development charges reserve funds over the forecasted period is included in Capital Appendix E (which includes the impacts of any required DC debt).

Impact on Long Term Debt

As outlined in the Capital Financing Principles (Capital Appendix A), debt financing for rate supported projects is utilized in limited circumstances when insufficient alternative funds are not available.

Existing Debt: The County has future repayments related to debt issued for to water and wastewater projects, with total remaining principal payments at the end of 2020 of approximately \$18.3 million. The annual debt repayments (interest and principal) are committed over the forecast term and are included in the Net Capital Financing page in Capital Summary 3 as part of the overall capital financing. Typically debt payments begin the year after the debt proceeds are received (e.g. for debt issued in 2019; repayments began in 2020). Existing debt have maturity dates ranging from 2020 to 2029 – see Capital Summary 3.

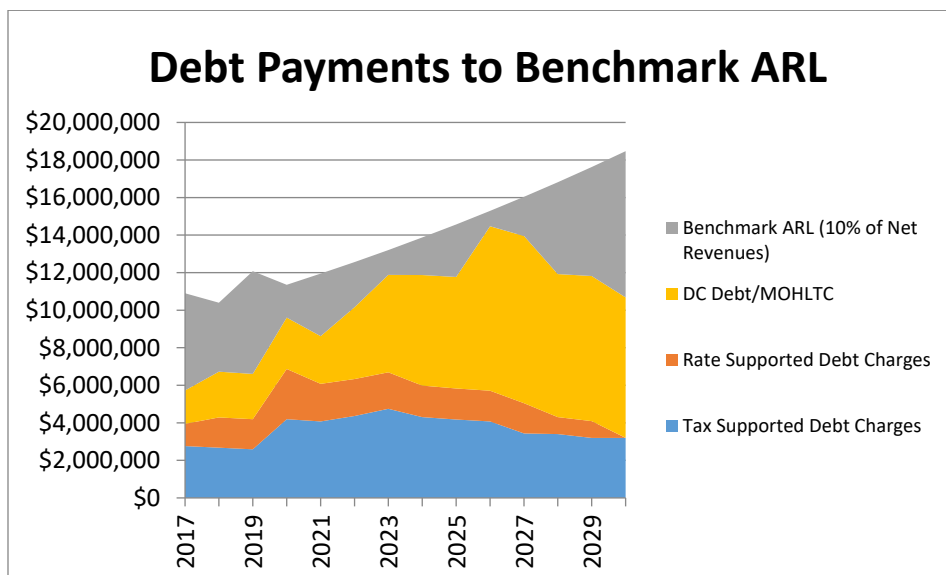
Proposed New Debt: Over the ten year forecast, there is **NO** new proposed debt financed projects for water or wastewater projects. New debt to be issued over the forecast term includes existing projects where construction is to be completed and debt financed in 2021 or beyond.

Development Charge Debt (DC Debt): As outlined above, it is anticipated that new growth related debt to be recovered from future Development Charges will need to be issued over the forecast period to offset negative cash flows due to timing of Development Charges receipts (i.e. commonly referred to as DC or growth related debt). Over the ten year forecast, there is approximately \$65 million of new debt issuances required to fund specifically identified projects (approximately \$21.5 million when excluding the new/upgraded Caledonia WWTP).

Annual debt repayments for DC debt will be offset by future development charges. All existing and proposed DC debt related payments are included in the Net Capital Financing page in Capital Summary 3 as part of the overall capital financing.

The Ministry of Municipal Affairs and Housing regulates the level of debt that may be incurred by municipalities - no more than 25% of the total own purpose revenue can be used to service debt and other long-term obligations. It should be noted that, despite the limits imposed by the Province, a prudent municipality in a low growth area would not consider a debt burden to this level. A typical guideline established by municipalities is a 10% maximum.

The following analysis projects the annual debt charges, in comparison to the County’s annual repayment limit (ARL) and in relation to the County’s Financial Principles Guideline of 10% (this analysis also includes the tax supported debt payments as approved in the 2020-2029 tax supported 10 year capital forecast and all proposed DC Debt).



The above graph includes debt required to offset the timing of cash flows related to Development Charge receipts (typically referred to as “DC Debt”), CVF receipts and offsetting grants for Grandview Lodge Debt (until 2027).

Based on projected annual debt repayments (assuming approximately a 4% increase in net revenues annually), the County is within its established financing principles of a maximum of 10% of annual net revenues (Municipal sources only). Over the forecasted period, the County’s total debt payments (i.e. DC debt, tax and rate supported) reach a maximum of nearly \$14.5 million (tax supported \$4.1 million; rate supported \$1.6 million, DC debt \$8.8 million) or 9.46% of annual net revenues in 2026. Given the significant infrastructure requirements, the future use of debt is unavoidable. However, proper debt policies ensure:

- That outstanding debt obligations will not threaten long-term financial stability;
- That the amount of outstanding debt will not place undue burden on future water and wastewater users;
- That the municipality maintains the flexibility to take advantage of opportunities that arise;
- Continued investment in long-term infrastructure;
- A better matching of the Water and Wastewater user’s cost of financing the proposed project with the future benefits derived from the infrastructure investment.

Staff will continue to monitor the ARL limits for debt in future years to ensure these principles are maintained.

FUTURE IMPACTS/BUDGET CONSTRAINTS

Although the County has consistently established the Rate Supported Budget as full cost recovery from the users of these systems (i.e. no property tax revenues support the water or wastewater operations or capital infrastructure), there are some areas that still require assumptions and projections that could impact future rates. In addition, as a result of changing legislative environments, operating costs can fluctuate year to year. These will have varying effects on future budgets; and it is anticipated that, through future reviews and closely monitoring actual results, impacts can be minimized. These future issues include:

- Impacts of additional customers and/or consumption patterns related to residential growth
- Impacts of Reduced Consumption at Large Industrial Users – As indicated above, reduced consumption at the 4 large industrial operations (2 separate owners) could have significant impacts on future rates. These users currently represent approximately 25% of total water rates revenue consumption and 14% of wastewater revenue consumption in 2020. In addition, Raw Water revenues account for approximately \$2.1 million in cost recovery, not all of which could be eliminated if consumption was reduced.
- Maintenance Costs Associated with Ontario Power Generation (OPG) Water Intake – The current budget does include some expected maintenance costs associate with the OPG water intake (\$75,000 in 2021 and \$50,000 thereafter). These costs are currently only estimates and will be more refined once better information is obtained. These costs will also be shared with industry.
- Tangible Capital Asset Reporting and Long Range Asset Management – A comprehensive inventory of water and wastewater assets will identify the infrastructure needs for long range infrastructure planning.
- Ongoing Performance Evaluations of Facilities - Facility reviews and needs studies may impact future timing of required infrastructure replacements.
- Leachate Treatment Revenues – With the transition from landfill operations to a transfer station, the treatment of leachate from these closed landfills will decline over time and affect the revenues generated from the applicable treatment. This will ultimately shift costs to other users of the systems thereby affecting future rates. Further review of leachate management will be completed in the upcoming years.
- Available Balances in Rate Stabilization Reserves – The availability of balances in rate stabilization reserves will be a major factor in the ability to offset/mitigate any of the above factors in a given year or over a planned timeframe. These balances need to be managed and monitored to ensure sufficient reserves are available.

All of these items could have substantial financial impacts on future County budgets and/or user rates. As these issues are resolved or completed, a more strategic and long range financial plan can be developed and implemented.

CONCLUSION/RECOMMENDATIONS

In light of the current economic times and from a financial perspective, the 2021 Draft Rate Supported Operating Budget and Capital Forecast is fiscally responsible and based on sound financial principles. There are significant investments in rehabilitation/replacement of infrastructure while maintaining the integrity of the water and wastewater system.

Continual revisions to the operating budget process will help the County better allocate resources to manage its operations and develop a long range financial plan with predictable water and wastewater rates.

It is, therefore, recommended that Council adopt the 2021 Draft Rate Supported Operating Budget and Capital Forecast and associated revisions to user rates and miscellaneous fees and charges.

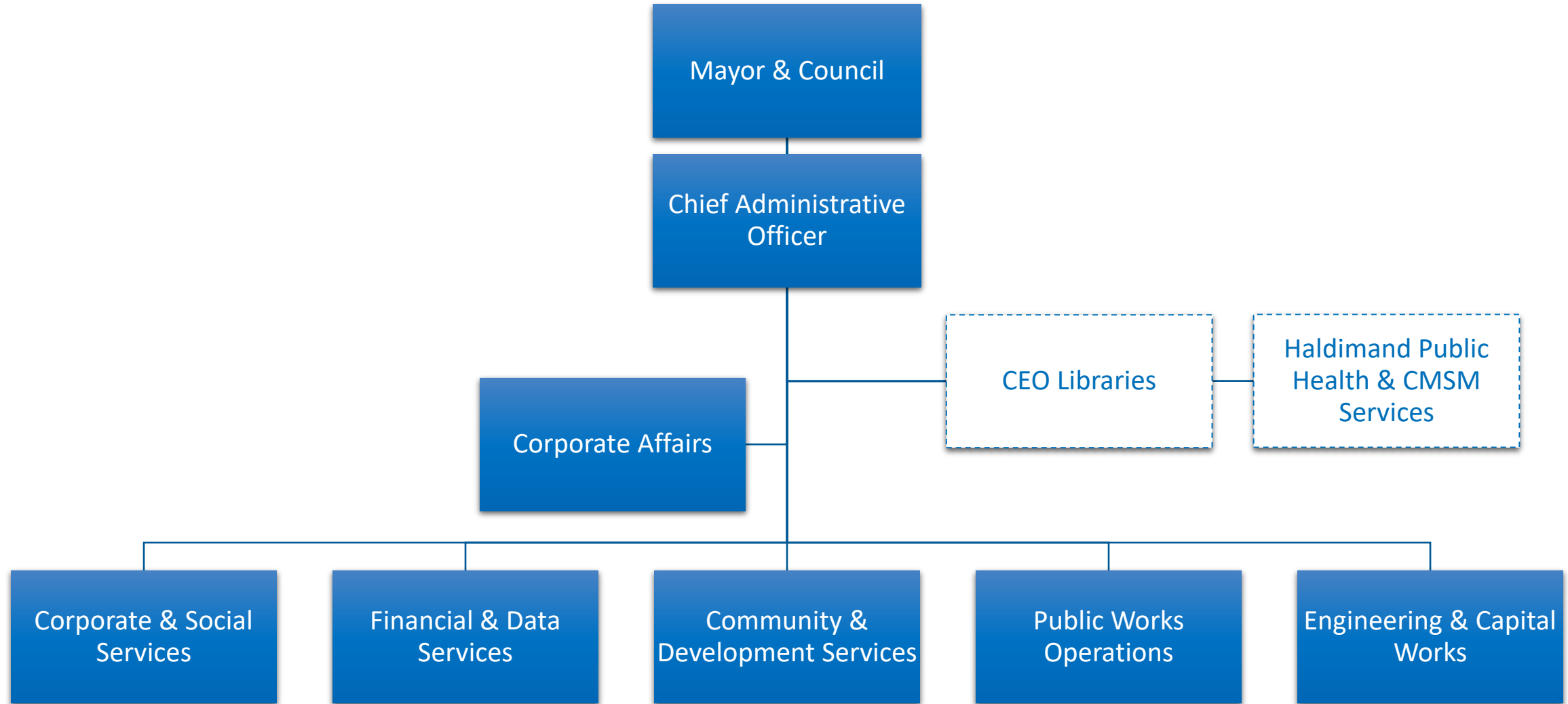
Prepared by: Charmaine Corlis, Treasurer

Respectfully submitted: Mark Merritt, CPA, CA, Chief Financial Officer and General Manager of Financial & Data Services



Haldimand County

Governance





Council & Senior Management

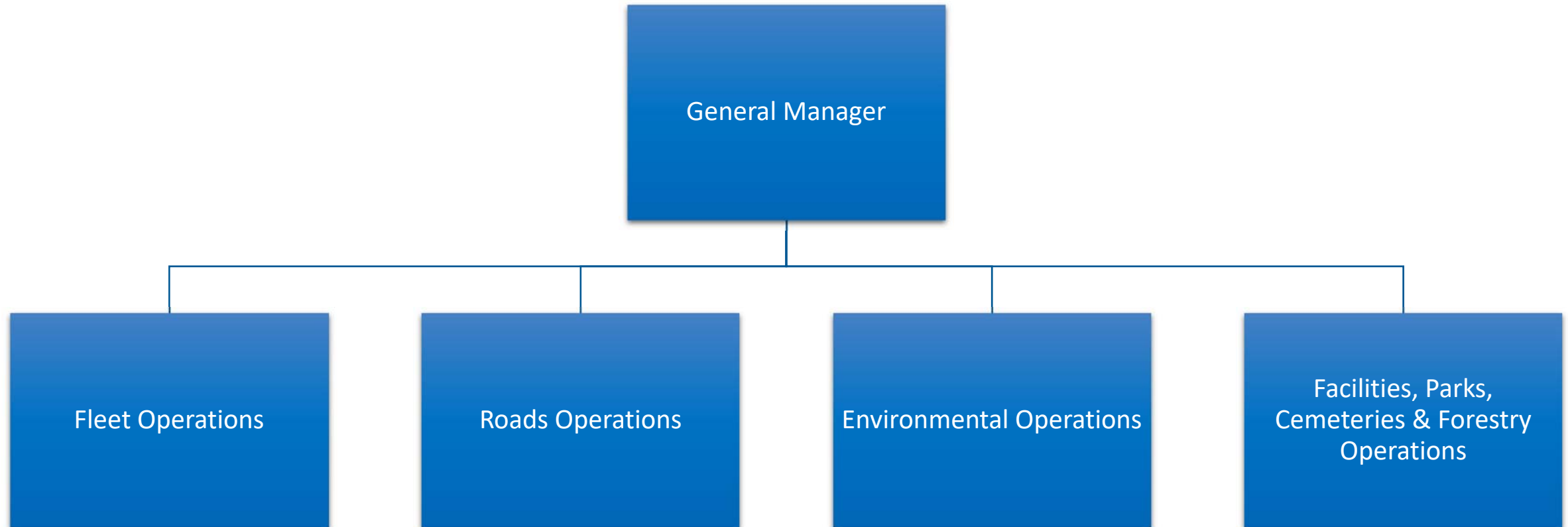
Haldimand County Council 2018-2022

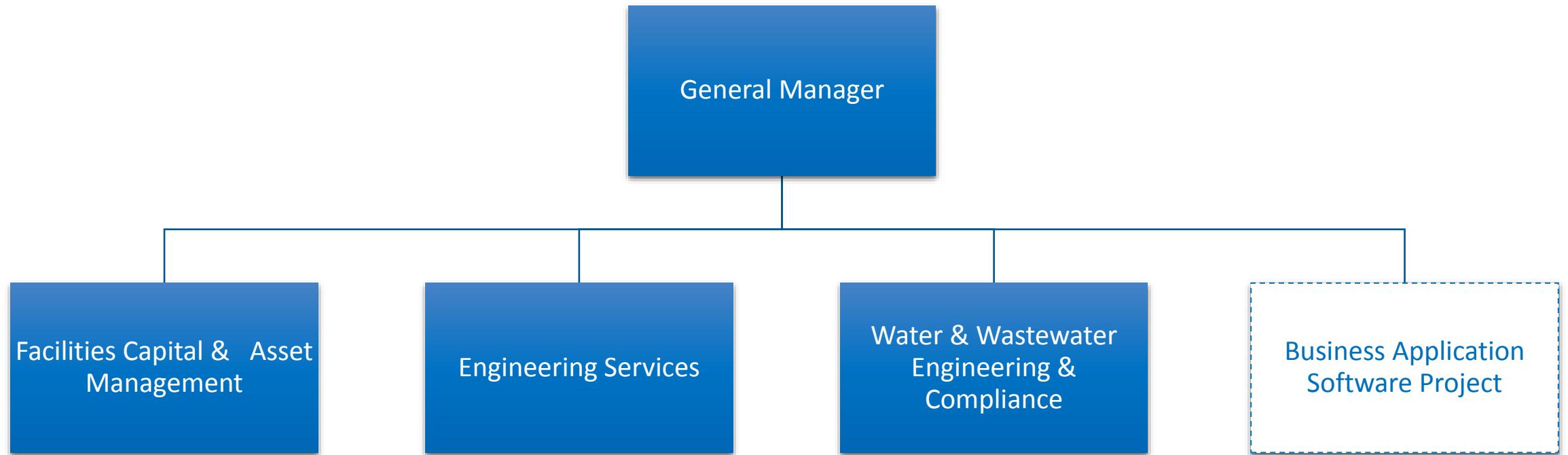
	Mayor	Ken Hewitt
Ward 1	Stewart Patterson	Ward 4 Tony Dalimonte
Ward 2	John Metcalfe	Ward 5 Rob Shirton
Ward 3	Dan Lawrence	Ward 6 Bernie Corbett

Haldimand County Senior Management

Craig Manley	Chief Administrative Officer	Mike Evers	General Manager, Community & Development Services
Cathy Case	General Manager, Corporate & Social Services	Phil Mete	General Manager, Public Works Operations
Mark Merritt	General Manager, Financial & Data Services	Tyson Haedrich	General Manager, Engineering & Capital Works
Megan Jamieson	Director, Human Resources	David Pressey	Director, Roads Operations

Public Works Operations





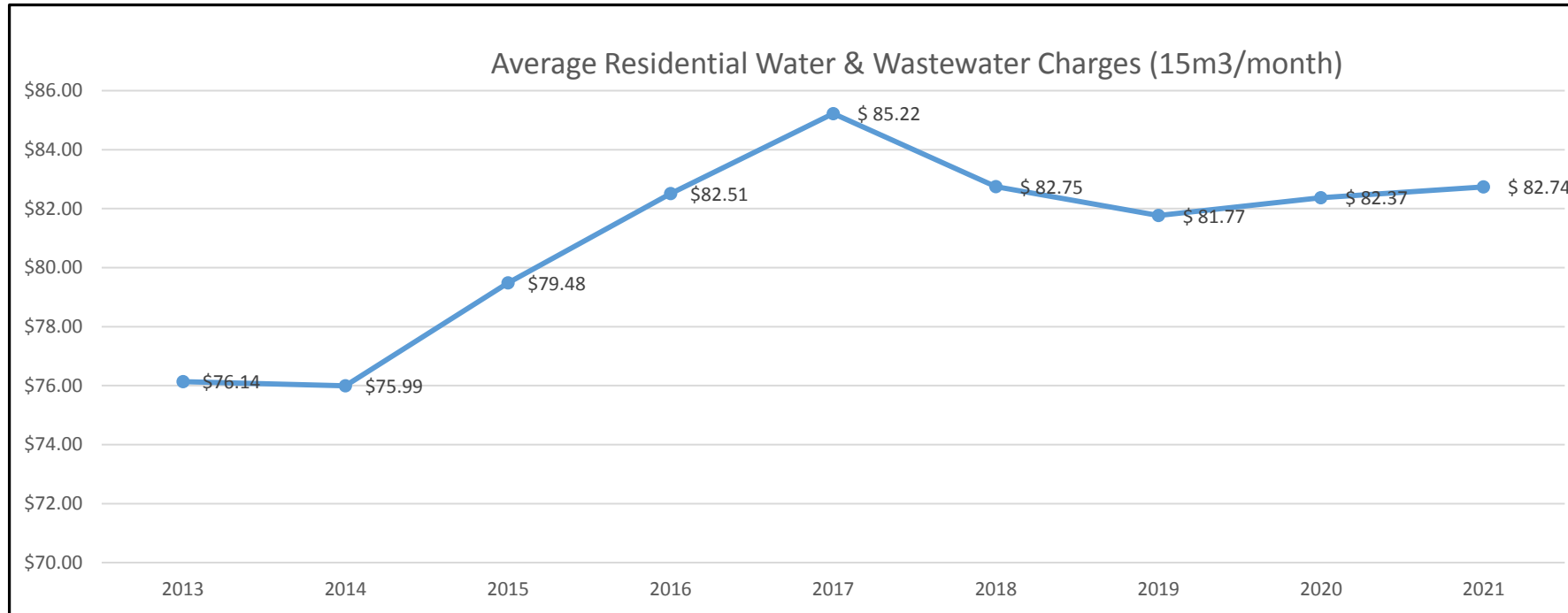
DRAFT RATE SUPPORTED
OPERATING BUDGET
WATER & WASTEWATER



2021



Average Customer Impacts



Average Monthly Residential Charges (15m3/month)	2013	2014	2015	2016	2017	2018	2019	2020	2021	\$ Change	% Change
Water Basic	\$21.85	\$21.86	\$22.08	\$21.47	\$ 21.78	\$ 21.10	\$ 19.80	\$ 20.24	\$ 20.38	\$ 0.13	0.7%
Water Consumption	\$16.41	\$15.33	\$16.01	\$15.82	\$ 15.49	\$ 15.45	\$ 14.85	\$ 14.61	\$ 14.62	\$ 0.01	0.1%
Total Water Charges	\$38.26	\$37.19	\$38.09	\$37.29	\$ 37.27	\$ 36.55	\$ 34.65	\$ 34.85	\$ 35.00	\$ 0.15	0.4%
Wastewater Basic	\$20.51	\$20.99	\$22.54	\$23.73	\$ 25.45	\$ 24.14	\$ 24.03	\$ 24.86	\$ 24.60	\$ (0.26)	(1.1%)
Wastewater Consumption	\$17.36	\$17.82	\$18.85	\$21.49	\$ 22.50	\$ 22.05	\$ 23.09	\$ 22.66	\$ 23.14	\$ 0.48	2.1%
Total Wastewater Charges	\$37.87	\$38.81	\$41.39	\$45.22	\$ 47.95	\$ 46.20	\$ 47.12	\$ 47.52	\$ 47.74	\$ 0.22	0.5%
Total Water & Wastewater Charges	\$76.14	\$75.99	\$79.48	\$82.51	\$ 85.22	\$ 82.75	\$ 81.77	\$ 82.37	\$ 82.74	\$ 0.37	0.4%

2021 New Initiatives

Draft Budget

Rate Supported Operating Budget

HALDIMAND COUNTY



Category	Initiative(s)	New Initiative - One-Time	New Initiative - Ongoing	Total New Initiative	Totals per Category
Environmental Operations - Water					
Water Administration	Supervisor, Environmental Operations - Position split 30% (\$36,190) Water; 30% (\$36,190)Wastewater; 40% Solid Waste (Tax Supported) \$49,920 - total staffing costs of \$122,300. Includes capital requirements of \$10,920 and ongoing operating impacts of \$1,190 (Furniture and IT replacement costs)	-	36,190	36,190	41,890
Water User Rates Revenues	Change in consumption volumes used (from 20m3 to 15m3) in calculating the monthly flat rate fee for customers with water services but no meter installed (typically new development)	-	5,700	5,700	
Environmental Operations - Wastewater					
Wastewater Administration	Supervisor, Environmental Operations - Position split 30% (\$36,190) Water; 30% (\$36,190)Wastewater; 40% Solid Waste (Tax Supported) \$49,920. Total staffing costs of \$122,300. Includes capital requirements of \$10,920 and ongoing operating impacts of \$1,190 (Furniture and IT replacement costs)	-	36,190	36,190	44,290
Wastewater User Rates Revenues	Change in consumption volumes used (from 20m3 to 15m3) in calculating the monthly flat rate fee for customers with wastewater services but no meter installed (typically new development and Oswego Park)	-	8,100	8,100	
TOTAL Rate-Supported Operations New Initiatives		-	86,180	86,180	

Change Request

Change Request: AUTO - 1139 - Supervisor, Environmental Operations

Budget Year: 2021

Budget Program: Water

Change Request Category: New/Change in Staffing

Justification: Operational Efficiencies

Budget Category: Water Administration

Type: Change in Service Delivery

Frequency: Ongoing

Business Case:

Currently the Manager – Environmental Operations has fourteen direct reports including Union & Non-Union staff (see attached Current staffing chart)

These include:

Non Union:

- 1 Admin Assistant
- 2 WWW Supervisors

Union:

- 3 Technologists, Environmental Operations -1 WWW, 2 Solid Waste
- 1 Foreperson, Solid Waste
- 1 Senior Site Attendant, Solid Waste
- 1 Weigh Scale Attendant, Solid Waste
- 1 Part time Site Attendant, Solid Waste
- 1 Part time Weigh Scale Attendant, Solid Waste
- 2 Division Support - 1 WWW, 1 Solid Waste (Job share with 2 staff)

Rationale:

The creation of a Supervisor - Environmental Operations position would correct staffing gaps as a result of legacy issues associated with the re-org of Water & Wastewater Operations, Compliance Group, WWW Engineering and Solid Waste Operations. The Supervisor – Environmental Operations position would directly oversee eight unionized front-line and technical staff (see attached proposed staffing chart). This better aligns staff positions, reporting structure, and span of control while allowing for supervisory level signing authority as required within the Environmental Operations Division. The position will address the legacy gapping associated with no transfer of previous Supervisor positions contained within the former Solid Waste Operations division and the former Compliance Group after the re-org with the reallocation of additional responsibilities from the other Divisions transferred over to Environmental Operations.

This position will provide for:

- Dedicated direct supervision of technical & waste management unionized staff;
- Essential non union coverage within the Division;
- Essential oversight and adherence to all Regulatory, Legislative, Compliance and Policy requirements for the Water & Wastewater and Waste Management facilities and systems.
- Staff and skills retention (currently no direct non-union positions for Technologists or Solid Waste staff to potentially advance within the Division);
- Non-union oversight and authorization of Tech related programs implemented for County operations staff (i.e. distribution system optimization and water accountability programs);
- Assistance with water, wastewater and waste management contract administration.
- Conformance of Haldimand County's Quality Management System (QMS) with the MECP's Drinking Water Quality Management Standard (DWQMS) and act as it's coordinator & representative.
- Efficient leadership & direction to direct reports;
- Improved succession planning within the division, including cross training of technologists;
- Mentoring and support for identified staff;

Key Position Responsibilities:

- Direct supervision of Waste Management unionized operations staff (5), including the daily operations at the Canborough Waste Transfer Station and closed landfill site post closure operational, monitoring and perpetual care requirements;
- Direct supervision of unionized Technologists (3) to ensure group tasks, priorities, goals and responsibilities are achieved and delivered;
- Day to Day direct operational oversight of the following large contracts:
 - Curbside Garbage & Recycling Collection – \$2.0 million annual operating budget;
 - Garbage & Recycling Transfer Station Operation, Hauling & Disposal - \$1.6 million annual operating budget;

Change Request

- Leachate Hauling - \$520,000 annual operating budget.
- On-going support to the Manager to ensure deliverables and objectives are being met for the following large contracts:
 - Veolia WWTP- \$2.6 million annual operating budget;
 - OCWA WTP- \$2.1 million annual operating budget.
- Act on behalf of the Manager when designated;
- Primary County contact for MECP inspections, inquiries and reporting requirements related to the water and wastewater treatment facilities, distribution and collection systems, Canborough waste transfer facility and closed landfill sites;
- Direct oversight of all Compliance & Regulation related activities within Environmental Operations to ensure all requirements within current Regulations, Legislation and Policies are being adhered to and met relative to services and programs provided;
- Act as the Quality Management System (QMS) representative who is responsible for ensuring Haldimand's QMS conforms to the MECP's DWQMS
- Direct oversight of the Water, Wastewater & Solid Waste Bylaws
- Direct oversight and co-ordination with industries to ensure compliance with Sanitary Discharge Agreements
- Permits to Take Water, Drinking Water System Certificates & ECA renewals to ensure compliance
- Direct oversight of Canborough and Tom Howe leachate management systems and closed landfill site surface and ground water well monitoring;
- Assist Manager with strategic planning, goal setting, priorities and Capital/Operational objectives for the Division;
- Analyze technical information related to divisional operations and prepare required reports along with relevant recommendations and follow up actions;
- Supervise the co-ordination of waste diversion programs;
- Key position assigned to implementation of the significant upcoming blue box regulation program changes;
- Key position in exploring options and eventually program development/ implementation of an organics (green-bin program);
- Key position in implementing recommendations of our Leachate Study – evaluation and identification of future reduction strategies;
- Key position in implementing upcoming changes to the Municipal Hazardous and Special Waste (MHSW) and Waste Electrical and Electronic Equipment (WEEE) programs;
- Assist Manager with Capital and Operating budget preparation and monitor status of assigned accounts/projects throughout the year , taking appropriate actions to ensure adherence to the approved budget and ensure costs are allocated to the appropriate accounts;
- Water, Wastewater & Solid Waste Bylaw oversight;
- Biosolids management program oversight;
- Supervision, continued development and implementation of Distribution/Collection systems optimization and water accountability programs;
- Staff development, mentoring, skills development, support and guidance.

The total impact of this position is as follows:

Water: \$36,190
Wastewater: \$36,190
Subtotal Water and Wastewater: \$72,380

Solid Waste: \$49,920
Total Staffing Costs: \$122,300

Capital Costs: \$10,920

Operating Impacts from Capital Purchases: \$1,190

The status of the division's current needs and priorities were taken in to account when determining the need for this position. Management is committed to reviewing the future needs of the division in conjunction with the Blue Box and Green Bin programs changes.

Change Request

New Initiative Details	2021 Base Budget	2021 One-Time New Initiative Impacts	2021 Ongoing New Initiative Impacts	2021 Revised Total Budget
Expenses				
Materials				
Materials	156,900		4,580	161,480
Salaries, Wages & Benefits				
Salaries, Wages, and Employee Benefits	248,860		117,720	366,580
Subtotal	405,760		122,300	528,060
Net Levy Impact	405,760		122,300	528,060

Capital Budget Details

Project	Line Description	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Total
Expenses												
134002 - Furniture Replacements	Desk modifications for Supervisor, Environmental Operations		6,500									6,500
136007 - Cell Phone/Smartphone Upgrade/Replacement	Cell Phone for Supervisor, Environmental Operations		360									360
136016 - Portable 2-in-1s	2-in-1 for Supervisor, Environmental Operations		2,900									2,900
136016 - Portable 2-in-1s	Microsoft Licenses for Supervisor, Environmental Operations		600									600
136017 - Dual and Ultrawide Monitors	2nd Screen for Supervisor, Environmental Operations		260									260
136023 - Telephone System - Voice over IP	Desk Phone for Supervisor, Environmental Operations		300									300
Total Expenses			10,920									10,920

Change Request

Impact Budget Details

Project	Object	Division	Description	2021 Budget
Expenses				
134002 - Furniture Replacements	920600 - CRR General		Contribution for Supervisor, Environmental Operations Desk Modifications	330
136007 - Cell Phone/Smartphone Upgrade/Replacement	920700 - CRR Info Technology		Contribution for Supervisor, Environmental Operations Mobile Device	180
136016 - Portable 2-in-1s	920700 - CRR Info Technology		Contribution for Supervisor, Environmental Operations Portable 2-in-1	580
136017 - Dual and Ultrawide Monitors	920700 - CRR Info Technology		Contribution for Supervisor, Environmental Operations Second Monitor	40
136023 - Telephone System - Voice over IP	920700 - CRR Info Technology		Contribution for Supervisor, Environmental Operations Desk Phone	60
Total Expenses				1,190

Environmental Operations – Current



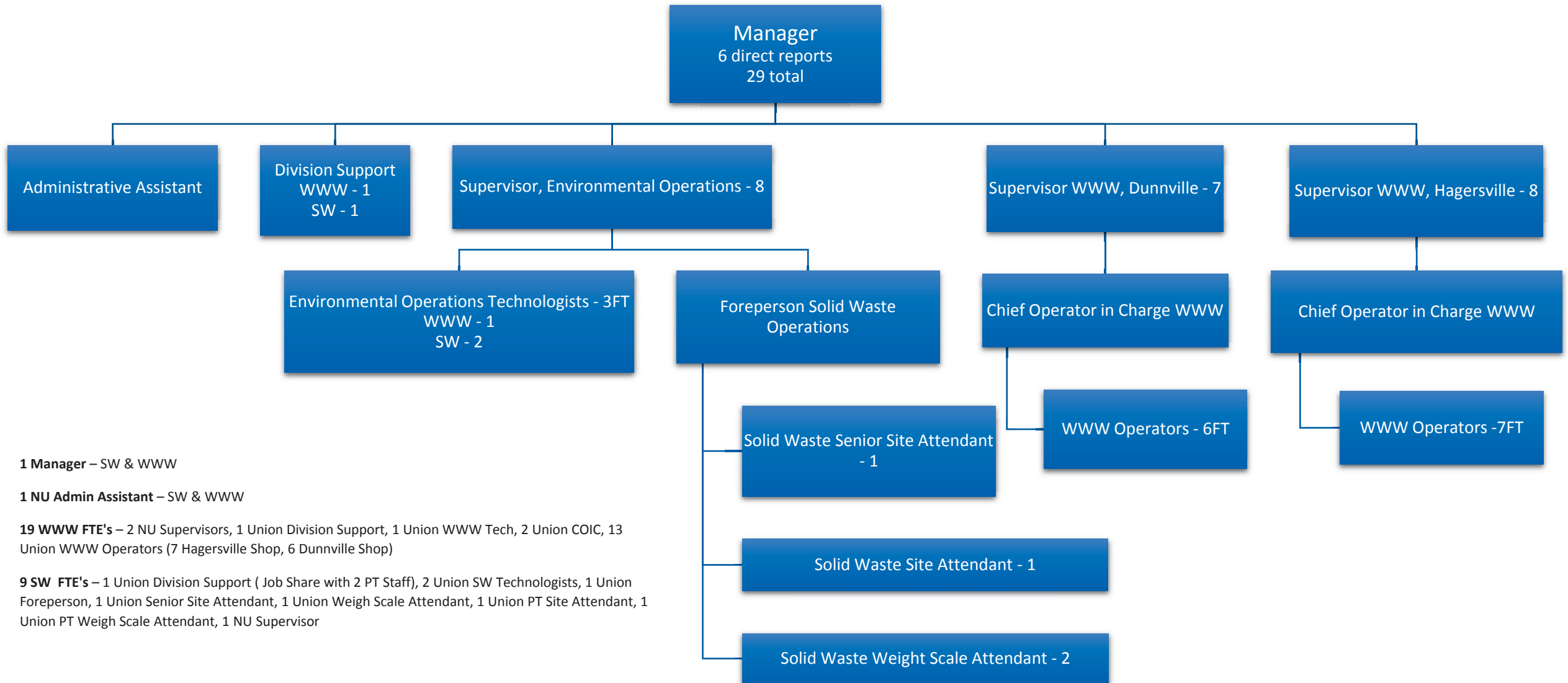
1 Manager – SW & WWW

1 NU Admin Assistant – SW & WWW

19 WWW FTE's – 2 NU Supervisors, 1 Union Division Support, 1 WWW Technologist, 2 Union COIC, 13 Union WWW Operators (7 Hagersville Shop, 6 Dunnville Shop)

8 SW FTE's– 1 Union Division Support (Job Share with 2 PT Staff), 2 Union SW Technologists, 1 Union Foreperson, 1 Union Senior Site Attendant, 1 Union Weigh Scale Attendant, 1 Union PT Site Attendant, 1 Union PT Weigh Scale Attendant

Environmental Operations – Proposed 2021



1 Manager – SW & WWW

1 NU Admin Assistant – SW & WWW

19 WWW FTE's – 2 NU Supervisors, 1 Union Division Support, 1 Union WWW Tech, 2 Union COIC, 13 Union WWW Operators (7 Hagersville Shop, 6 Dunnville Shop)

9 SW FTE's – 1 Union Division Support (Job Share with 2 PT Staff), 2 Union SW Technologists, 1 Union Foreperson, 1 Union Senior Site Attendant, 1 Union Weigh Scale Attendant, 1 Union PT Site Attendant, 1 Union PT Weigh Scale Attendant, 1 NU Supervisor

Change Request

Change Request: AUTO - 1145 - Flat Rate Water Fee Adjustment

Budget Year: 2021

Budget Program: Water
Change Request Category: New Initiative
Justification: Community Interest

Budget Category: Water User Rates Revenues
Type: Change in Service Delivery
Frequency: Ongoing

Description:

Customers who have water service but no meter installed (typically new development) are billed monthly on a flat rate. These water customers are currently billed monthly based on a residential 3/4" meter size and estimated consumption of 20 cubic meters per month. In recent years, the average residential consumption per month has reduced (for various reasons such as increased water conservation efforts). Staff have also received numerous complaints in the past over the consumption used to bill the flat rate.

In order to better reflect the average residential consumption per month, it is proposed that the monthly consumption charge for flat rate users be reduced from 20 cubic meters to 15 cubic meters. It is estimated that this reduction in consumption will result in lost annual revenue of approximately \$5,700. Details of the revised fee can be found in Operating Appendix D - Schedule A - Metered Charges.

The same reduction is being proposed for Wastewater Flat Rate users. This reduction is anticipated to result in lost wastewater consumption revenue of approximately \$8,100.

The total impact to water and wastewater revenues is estimated to be \$13,800.

New Initiative Details	2021 Base Budget	2021 One-Time New Initiative Impacts	2021 Ongoing New Initiative Impacts	2021 Revised Total Budget
Revenues				
General Recoveries				
User Fees and Service Charges	(2,838,290)		5,700	(2,832,590)
Subtotal	(2,838,290)		5,700	(2,832,590)
Net Levy Impact	(2,838,290)		5,700	(2,832,590)

Change Request

Change Request: AUTO - 1146 - Flat Rate Wastewater Fee Adjustment

Budget Year: 2021

Budget Program: Wastewater
Change Request Category: New Initiative
Justification: Community Interest

Budget Category: Wastewater User Rates Revenues
Type: Change in Service Delivery
Frequency: Ongoing

Description:

Customers who have wastewater service but no meter installed (typically new development) are billed monthly on a flat rate. These wastewater customers are currently billed monthly based on a residential 3/4" meter size and estimated monthly consumption of 20 cubic meters. In recent years, the average residential consumption per month has reduced (for various reasons such as increased water conservation efforts). Staff have also received numerous complaints in the past over the consumption used to bill the flat rate.

In order to better reflect the average residential consumption per month, it is proposed that the monthly consumption charge for flat rate users be reduced from 20 cubic meters to 15 cubic meters. It is estimated that this reduction in consumption will result in lost annual revenue of approximately \$8,100. Details of the revised fee can be found in Operating Appendix D - Schedule A - Metered Charges.

The same reduction is being proposed for Water Flat Rate users. This reduction is anticipated to result in lost water consumption revenue of approximately \$5,700.

The total impact to water and wastewater revenues is estimated to be \$13,800.

New Initiative Details	2021 Base Budget	2021 One-Time New Initiative Impacts	2021 Ongoing New Initiative Impacts	2021 Revised Total Budget
Revenues				
General Recoveries				
User Fees and Service Charges	(4,497,700)		8,100	(4,489,600)
Subtotal	(4,497,700)		8,100	(4,489,600)
Net Levy Impact	(4,497,700)		8,100	(4,489,600)

Haldimand County 2020 Draft Rate Supported Operating Budget

Water and Wastewater Summary

Function:

To manage the water supply, water and wastewater treatment systems as well as operate and maintain the County's water distribution system, wastewater collection and storm water collection systems.

Services:

The Water & Waste Water Operations Division and the Water & Wastewater Engineering and Compliance Division are committed to providing safe, reliable drinking water and good economical effluent through the efficient, effective and environmentally responsible operation of the county's Water, Wastewater and Storm Sewer systems.

Services include:

- Contract administration for the Nanticoke and Dunnville water treatment facilities and supply systems
- Operation of the Caledonia and Cayuga water supply systems
- Operation and maintenance of the County's three water systems, including fire hydrants and water meters
- Contract administration for the eight Wastewater Treatment Facilities within the County
- Operation and maintenance of the County's eight wastewater collection systems
- Operation and maintenance of the County's eight urban storm sewer systems in partnership with the County's Roads Operations Division
- Ensuring legislative compliance for all aspects of the operation of the water, wastewater and storm facilities
- Assessment and prioritization of short term and long term capital requirements for the water and wastewater and urban storm sewer systems through activities and initiatives designed to enhance understanding of system needs.

Service Issues:

Ensure legislative compliance for all aspects of the operation of the water, wastewater and storm facilities. Continued communication and involvement with Industries to ensure compliance with the Sewer use By-Law. Ongoing review and update of the Drinking Water Quality Management System for all water facilities and systems to meet the requirements of the Safe Drinking Water Act. Ensure effluent compliance through continuing optimization at all Wastewater Treatment Facilities. Continuation of upgrade projects in water and wastewater treatment facilities throughout the County to ensure capable plants are in place. Promotion of optimization tools with a focus on data based decision making to enhance process control for all treatment facilities to ensure the production of safe reliable water in sufficient quantity to meet system requirements.

Service Outcomes:

The establishment of a water, wastewater and storm water management program that fosters a team-based approach to ensure the protection of public health and the environment. Resolution of servicing and environmental issues; building trust and positive relationships through strict adherence to legislative requirements and forged partnerships with local industries, the Mississaugas of the New Credit First Nation and the City of Hamilton.



Haldimand County 2021 Rate Supported Operating Budget Summary

Water and Wastewater Summary

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Expenditures:						
Salaries, Wages & Benefits	2,685,956	2,935,540	249,584	3,078,350	142,810	4.86%
Materials	5,843,112	5,967,670	124,558	6,290,670	323,000	5.41%
Contracted Services	5,737,585	5,829,440	91,855	5,703,250	(126,190)	(2.16%)
Rents and Financial Expenses	19,044	14,500	(4,544)	14,500	-	0.00%
External Transfers	-	-	-	-	-	
Interfunctional Adjustments	703,090	661,650	(41,440)	706,170	44,520	6.73%
Long Term Debt Charges	3,768,276	3,768,350	74	2,927,150	(841,200)	(22.32%)
Transfers to Reserves/Reserve Funds	2,699,572	2,699,260	(312)	3,501,480	802,220	29.72%
Total Expenditures:	21,456,635	21,876,410	419,775	22,221,570	345,160	1.58%
Revenues						
Grants/Subsidies	-	-	-	-	-	
General Recoveries	(21,515,575)	(20,780,870)	734,705	(21,297,440)	(516,570)	2.49%
Development Charges Reserve Funds	(1,095,540)	(1,095,540)	-	(924,130)	171,410	(15.65%)
Miscellaneous Property Charges	-	-	-	-	-	
Transfers from Reserves/Reserve Funds	-	-	-	-	-	
Total Revenues:	(22,611,115)	(21,876,410)	734,705	(22,221,570)	(345,160)	1.58%
Projected Surplus/(Deficit)	(1,154,481)	-	1,154,481	-	-	
Staffing (stated in FTEs)						
Full Time		29.28		29.88	0.60	
Part Time &/or Temporary F/T		0.28		0.28	0.00	
Total FTEs		29.56		30.16	0.60	



Haldimand County 2021 Rate Supported Operating Budget Summary

Water Summary

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Expenditures:						
Salaries, Wages & Benefits	1,800,333	1,946,730	146,397	2,033,080	86,350	4.44%
Materials	4,581,207	4,756,770	175,563	4,954,580	197,810	4.16%
Contracted Services	2,835,433	2,879,930	44,497	2,700,540	(179,390)	(6.23%)
Rents and Financial Expenses	15,210	11,100	(4,110)	11,100	-	0.00%
Interfunctional Adjustments	392,939	371,620	(21,319)	397,710	26,090	7.02%
Long Term Debt Charges	1,438,237	1,438,280	43	1,279,440	(158,840)	(11.04%)
Transfers to Reserves/Reserve Funds	1,132,620	1,132,620	-	1,417,000	284,380	25.11%
Total Expenditures:	12,195,979	12,537,050	341,071	12,793,450	256,400	2.05%
Revenues						
General Recoveries	(12,346,879)	(12,034,730)	312,149	(12,291,320)	(256,590)	2.13%
Development Charges Reserve Funds	(502,320)	(502,320)	-	(502,130)	190	(0.04%)
Total Revenues:	(12,849,199)	(12,537,050)	312,149	(12,793,450)	(256,400)	2.05%
Projected Surplus/(Deficit)	(653,220)	-	653,220	-	-	
Staffing (stated in FTEs)						
Full Time		19.74		20.04	0.30	
Part Time &/or Temporary F/T		0.19		0.19	-	
Total FTEs		19.93		20.23	0.30	



Haldimand County 2021 Rate Supported Operating Budget

Water Administration

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Expenditures:						
Salaries, Wages & Benefits	812,484	909,040	96,556	963,930	54,890	6.04%
Materials	214,318	252,300	37,982	255,840	3,540	1.40%
Contracted Services	236,783	269,730	32,947	277,830	8,100	3.00%
Rents and Financial Expenses	3,240	3,300	60	3,300	-	0.00%
Interfunctional Adjustments	242,139	234,350	(7,789)	246,910	12,560	5.36%
Long Term Debt Charges	1,438,237	1,438,280	43	1,279,440	(158,840)	(11.04%)
Transfers to Reserves/Reserve Funds	1,132,620	1,132,620	-	1,417,000	284,380	25.11%
Total Expenditures:	4,079,821	4,239,620	159,799	4,444,250	204,630	4.83%
Revenues						
General Recoveries	(28,939)	(24,600)	4,339	(22,940)	1,660	(6.75%)
Total Revenues:	(28,939)	(24,600)	4,339	(22,940)	1,660	(6.75%)
Net Revenue Required from User Rates	4,050,881	4,215,020	164,139	4,421,310	206,290	4.89%
Staffing (stated in FTEs)						
Full Time		8.15		8.45	0.30	
Part Time &/or Temporary F/T		0.19		0.19	-	
Total FTEs		8.34		8.64	0.30	



Haldimand County 2021 Rate Supported Operating Budget

Water Distribution General

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Expenditures:						
Salaries, Wages & Benefits	987,849	1,037,690	49,841	1,069,150	31,460	3.03%
Materials	287,454	314,760	27,306	306,340	(8,420)	(2.68%)
Contracted Services	279,704	282,520	2,816	282,520	-	0.00%
Rents and Financial Expenses	9,117	7,800	(1,317)	7,800	-	0.00%
Interfunctional Adjustments	150,730	137,200	(13,530)	150,730	13,530	9.86%
Total Expenditures:	1,714,854	1,779,970	65,116	1,816,540	36,570	2.05%
Net Revenue Required from User Rates	1,714,854	1,779,970	65,116	1,816,540	36,570	2.05%
Staffing (stated in FTEs)						
Full Time		11.59		11.59	-	
Part Time &/or Temporary F/T		-		-	-	
Total FTEs		11.59		11.59	0.00	



Haldimand County 2021 Rate Supported Operating Budget

Water Treatment General

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Expenditures:						
Materials	4,079,435	4,189,710	110,275	4,392,400	202,690	4.84%
Contracted Services	2,318,946	2,327,680	8,734	2,140,190	(187,490)	(8.05%)
Rents and Financial Expenses	2,853	-	(2,853)	-	-	
Interfunctional Adjustments	70	70	-	70	-	0.00%
Total Expenditures:	6,401,304	6,517,460	116,156	6,532,660	15,200	0.23%
Revenues						
General Recoveries	(2,107,836)	(2,201,610)	(93,774)	(2,127,970)	73,640	(3.34%)
Total Revenues:	(2,107,836)	(2,201,610)	(93,774)	(2,127,970)	73,640	(3.34%)
Net Revenue Required from User Rates	4,293,468	4,315,850	22,382	4,404,690	88,840	2.06%
Staffing (stated in FTEs)						
Full Time		-		-	-	
Part Time &/or Temporary F/T					-	
Total FTEs		0.00		0.00	0.00	



Haldimand County 2021 Rate Supported Operating Budget

Water Fees and Charges

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Revenues						
General Recoveries	(4,389,379)	(4,039,360)	350,019	(4,224,820)	(185,460)	4.59%
Development Charges Reserve Funds	(502,320)	(502,320)	-	(502,130)	190	(0.04%)
Total Revenues:	(4,891,699)	(4,541,680)	350,019	(4,726,950)	(185,270)	4.08%
Net Revenue Required from User Rates	(4,891,699)	(4,541,680)	350,019	(4,726,950)	(185,270)	4.08%



Haldimand County 2021 Rate Supported Operating Budget

Water User Rates Revenues

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Revenues						
General Recoveries	(5,820,724)	(5,769,160)	51,564	(5,915,590)	(146,430)	2.54%
Total Revenues:	(5,820,724)	(5,769,160)	51,564	(5,915,590)	(146,430)	2.54%
Net Revenue Required from User Rates	(5,820,724)	(5,769,160)	51,564	(5,915,590)	(146,430)	2.54%



Haldimand County 2021 Rate Supported Operating Budget Summary

Wastewater Summary

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Expenditures:						
Salaries, Wages & Benefits	885,623	988,810	103,187	1,045,270	56,460	5.71%
Materials	1,261,905	1,210,900	(51,005)	1,336,090	125,190	10.34%
Contracted Services	2,902,153	2,949,510	47,357	3,002,710	53,200	1.80%
Rents and Financial Expenses	3,833	3,400	(433)	3,400	-	0.00%
Interfunctional Adjustments	310,151	290,030	(20,121)	308,460	18,430	6.35%
Long Term Debt Charges	2,330,039	2,330,070	31	1,647,710	(682,360)	(29.28%)
Transfers to Reserves/Reserve Funds	1,566,952	1,566,640	(312)	2,084,480	517,840	33.05%
Total Expenditures:	9,260,656	9,339,360	78,704	9,428,120	88,760	0.95%
Revenues						
Grants/Subsidies	-	-	-	-	-	
General Recoveries	(9,168,697)	(8,746,140)	422,557	(9,006,120)	(259,980)	2.97%
Development Charges Reserve Funds	(593,220)	(593,220)	-	(422,000)	171,220	(28.86%)
Total Revenues:	(9,761,917)	(9,339,360)	422,557	(9,428,120)	(88,760)	0.95%
Projected Surplus/(Deficit)	(501,261)	-	501,261	-	-	
Staffing (stated in FTEs)						
Full Time		9.54		9.84	0.30	
Part Time &/or Temporary F/T		0.09		0.09	-	
Total FTEs		9.63		9.93	0.30	



Haldimand County 2021 Rate Supported Operating Budget

Wastewater Administration

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Expenditures:						
Salaries, Wages & Benefits	644,642	735,670	91,028	784,660	48,990	6.66%
Materials	156,099	190,350	34,251	190,190	(160)	(0.08%)
Contracted Services	235,684	271,850	36,166	279,950	8,100	2.98%
Rents and Financial Expenses	3,240	3,300	60	3,300	-	0.00%
Interfunctional Adjustments	220,421	205,050	(15,371)	218,730	13,680	6.67%
Long Term Debt Charges	2,330,039	2,330,070	31	1,647,710	(682,360)	(29.28%)
Transfers to Reserves/Reserve Funds	1,566,952	1,566,640	(312)	2,084,480	517,840	33.05%
Total Expenditures:	5,157,077	5,302,930	145,853	5,209,020	(93,910)	(1.77%)
Revenues						
General Recoveries	(29,565)	(24,600)	4,965	(22,700)	1,900	(7.72%)
Total Revenues:	(29,565)	(24,600)	4,965	(22,700)	1,900	(7.72%)
Net Revenue Required from User Rates	5,127,512	5,278,330	150,818	5,186,320	(92,010)	(1.74%)
Staffing (stated in FTEs)						
Full Time		6.70		7.00	0.30	
Part Time &/or Temporary F/T		0.09		0.09	-	
Total FTEs		6.79		7.09	0.30	



Haldimand County 2021 Rate Supported Operating Budget

Wastewater Collection General

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Expenditures:						
Salaries, Wages & Benefits	240,981	253,140	12,159	260,610	7,470	2.95%
Materials	98,888	99,310	422	98,770	(540)	(0.54%)
Contracted Services	40,766	45,440	4,674	45,440	-	0.00%
Rents and Financial Expenses	102	100	(2)	100	-	0.00%
Interfunctional Adjustments	89,730	84,980	(4,750)	89,730	4,750	5.59%
Total Expenditures:	470,467	482,970	12,503	494,650	11,680	2.42%
Net Revenue Required from User Rates	470,467	482,970	12,503	494,650	11,680	2.42%
Staffing (stated in FTEs)						
Full Time		2.84		2.84	-	
Part Time &/or Temporary F/T					-	
Total FTEs		2.84		2.84	0.00	



Haldimand County 2021 Rate Supported Operating Budget

Wastewater Treatment General

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Expenditures:						
Materials	1,006,918	921,240	(85,678)	1,047,130	125,890	13.67%
Contracted Services	2,625,702	2,632,220	6,518	2,677,320	45,100	1.71%
Rents and Financial Expenses	491	-	(491)	-	-	
Total Expenditures:	3,633,112	3,553,460	(79,652)	3,724,450	170,990	4.81%
Net Revenue Required from User Rates	3,633,112	3,553,460	(79,652)	3,724,450	170,990	4.81%
Staffing (stated in FTEs)						
Full Time					-	
Part Time &/or Temporary F/T					-	
Total FTEs		0.00		0.00	0.00	



Haldimand County 2021 Rate Supported Operating Budget

Wastewater Fees and Charges

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Revenues						
General Recoveries	(2,217,440)	(1,918,000)	299,440	(1,933,110)	(15,110)	0.79%
Development Charges Reserve Funds	(593,220)	(593,220)	-	(422,000)	171,220	(28.86%)
Total Revenues:	(2,810,660)	(2,511,220)	299,440	(2,355,110)	156,110	(6.22%)
Net Revenue Required from User Rates	(2,810,660)	(2,511,220)	299,440	(2,355,110)	156,110	(6.22%)



Haldimand County 2021 Rate Supported Operating Budget

Wastewater User Rates Revenues

	2020 Current Forecast	2020 Revised Budget	2020 Surplus/ (Deficit)	2021 Proposed Budget	2021 Budget \$ Incr/(Decr)	2021 Budget % Incr/(Decr)
Revenues						
General Recoveries	(6,921,691)	(6,803,540)	118,151	(7,050,310)	(246,770)	3.63%
Total Revenues:	(6,921,691)	(6,803,540)	118,151	(7,050,310)	(246,770)	3.63%
Net Revenue Required from User Rates	(6,921,691)	(6,803,540)	118,151	(7,050,310)	(246,770)	3.63%



Rate Stabilization Reserves

OPERATING APPENDIX A

FORECAST OF RATE STABILIZATION RESERVE - WATER										
FOR THE YEARS 2016 TO 2025										
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	ACTUALS	ACTUALS	ACTUALS	ACTUALS	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	2,966,310	4,117,621	5,003,433	1,533,186	1,919,473	1,973,219	2,028,469	2,085,266	1,479,275	1,520,695
Source of Funds:										
Budgeted Annual Contribution	170,000	70,000								
Surplus/(Deficit) from Operations	861,649	754,337	864,209	331,836						
Interest Earned	119,662	61,475	82,168	54,452	53,745	55,250	56,797	45,009	41,420	42,579
Total Source of Funds	1,151,311	885,812	946,377	386,288	53,745	55,250	56,797	45,009	41,420	42,579
Use of Funds:										
Commitment for Active Projects										
Potential Contribution to CRRF - Water			4,416,624					651,000		
Total Use of Funds	0	0	4,416,624	0	0	0	0	651,000	0	0
Closing Balance December 31st	4,117,621	5,003,433	1,533,186	1,919,473	1,973,219	2,028,469	2,085,266	1,479,275	1,520,695	1,563,274
Balance in Reserve as a Percentage of Rates Revenue	70.72%	82.57%	25.01%	32.22%	34.20%	34.28%	35.24%	25.00%	25.70%	26.42%
Rates Revenue	5,822,506	6,059,264	6,129,195	5,957,625	5,769,160	5,916,880	5,916,880	5,916,880	5,916,880	5,916,880
Budgeted Annual Contribution as a % of Rates Revenue	2.92%	1.16%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

FORECAST OF RATE STABILIZATION RESERVE - WASTEWATER										
FOR THE YEARS 2016 TO 2025										
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	ACTUALS	ACTUALS	ACTUALS	ACTUALS	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	1,023,840	973,419	2,114,578	2,909,113	3,567,538	3,821,929	1,762,316	1,811,660	1,862,387	1,862,387
Source of Funds:										
Budgeted Annual Contribution		100,000								
Leachate/Overstrength contributions	105,053	158,127	176,820	152,417	154,500					
Surplus/(Deficit) from Operations	(193,471)	866,991	581,407	400,287						
Interest Earned	37,997	16,041	36,308	105,721	99,891	63,386	49,345	50,726	52,147	52,147
Total Source of Funds	(50,421)	1,141,159	794,535	658,425	254,391	63,386	49,345	50,726	52,147	52,147
Use of Funds:										
Commitment for Active Projects										
Potential Contribution to CRRF - Wastewater						2,123,000				
Total Use of Funds	0	0	0	0	0	2,123,000	0	0	0	0
Closing Balance December 31st	973,419	2,114,578	2,909,113	3,567,538	3,821,929	1,762,316	1,811,660	1,862,387	1,914,534	1,914,534
Balance in Reserve as a Percentage of Rates Revenue	16.98%	32.69%	44.86%	53.27%	56.18%	24.99%	25.69%	26.41%	27.15%	27.15%
Rates Revenue	5,733,479	6,468,271	6,485,007	6,697,164	6,803,540	7,051,600	7,051,600	7,051,600	7,051,600	7,051,600
Budgeted Annual Contribution as a % of Rates Revenue	1.83%	3.99%	2.73%	2.28%	2.27%	0.00%	0.00%	0.00%	0.00%	0.00%

Utilizing historical deficits data, it is prudent to ensure a reserve balance of 25% of rates revenue; this was a four year plan to ensure the annual contribution is approximately 3% of rates revenue starting in 2014. As both the water and wastewater rate stabilization reserves contain healthy balances, contributions ceased in 2018.

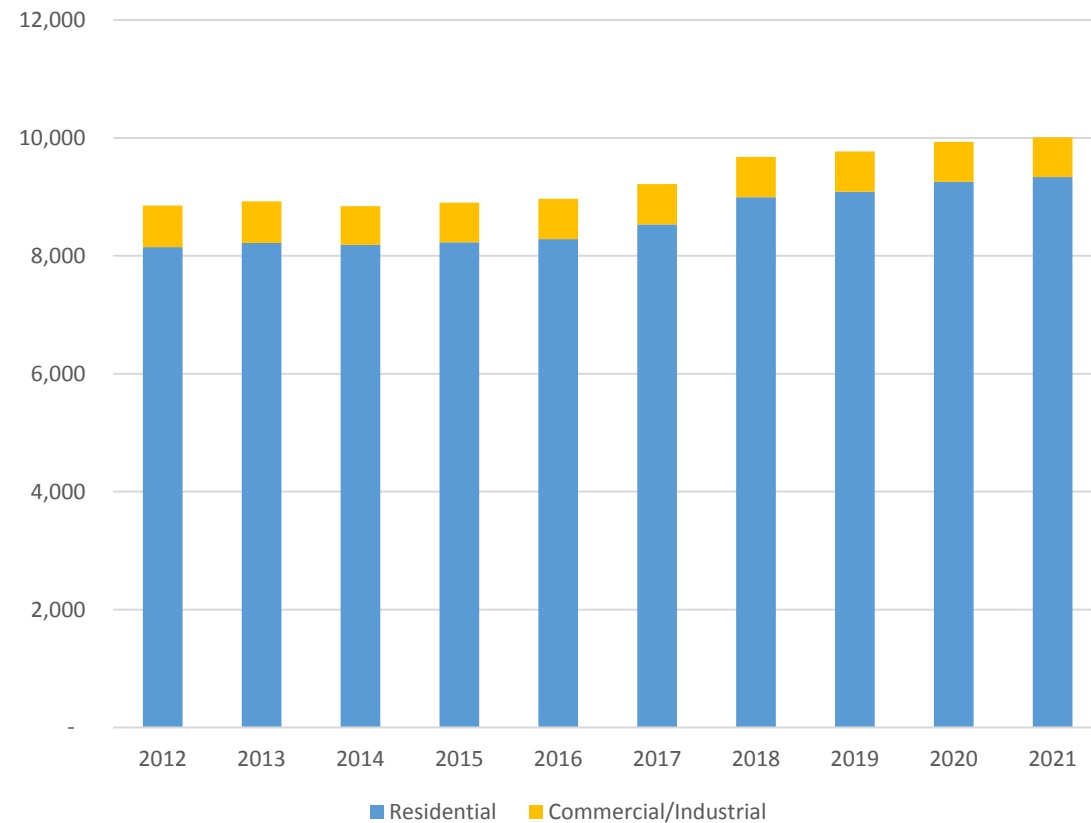
Staff will continue to monitor the reserve balances for the potential requirement of additional contributions.

If the balance within the reserve is greater than 25% of rates revenue for four years in a row, the additional amount will be contributed to CRRF to assist in offsetting potential increases required for the capital program and implementation of asset management.



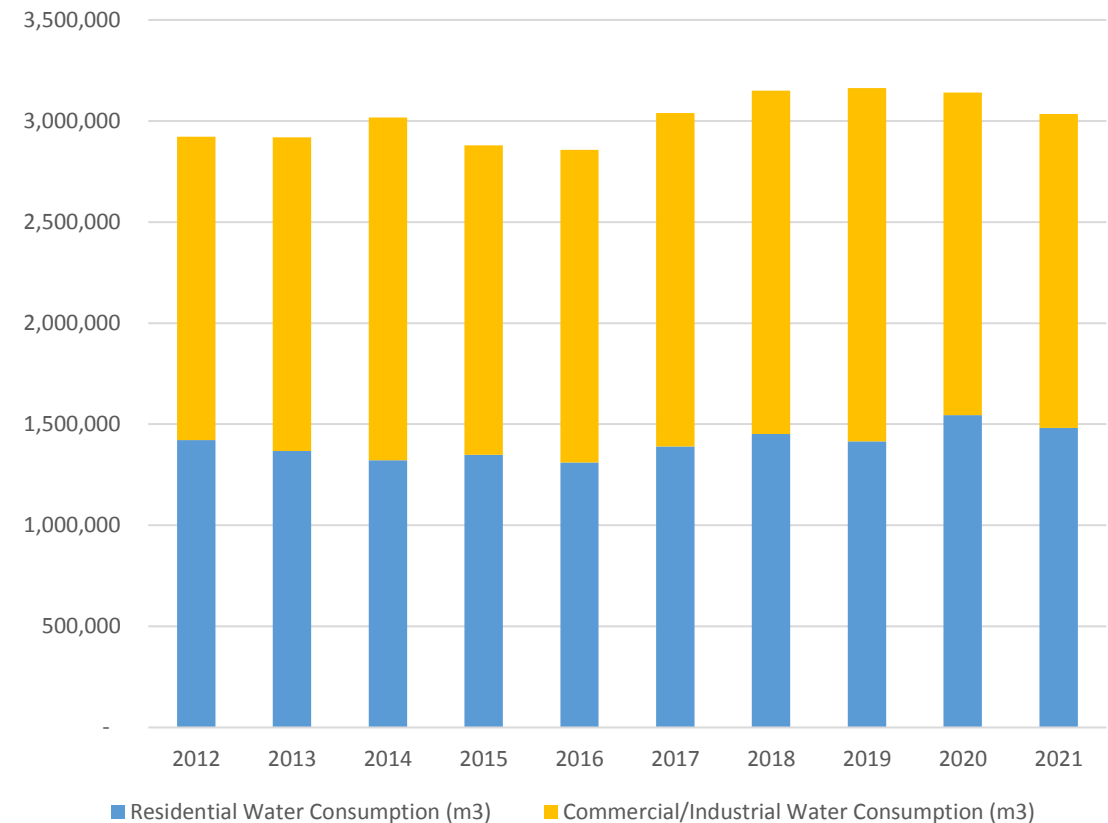
Consumer and Consumption Statistics

Residential & Commercial/Industrial Water Consumers (#)



*Includes all water customers, including standby regardless of consumption usage.
 Validation of customer data has been completed since 2014. Previous years are based on estimates.
 2021 Consumers based on validation of current users and anticipated growth.*

Water Consumption (m3)



*2021 residential consumption based on three year average consumption.
 2021 commercial/industrial consumption based on adjusted three year average consumption.
 2021 average monthly residential consumption is forecasted to be approximately 13 m3*



Water & Wastewater Comparison of Average Monthly Billing for Selected Municipalities

	Haldimand County	Haldimand County Proposed	Norfolk County	City of Brantford	County of Brant	City of Hamilton	Town of Lincoln
Effective Date	1-Feb-20	Proposed for 2021	1-Jan-21	1-Jan-21	1-Jan-21	1-Jan-21	1-Jan-20
Demographics							
Population	45,608	45,608	64,044	97,496	36,707	536,917	23,787
Water Customers	9,933	10,010	15,769	35,086	7,200	142,000	5,569
Geographic Area (Km ²)	1,252	1,252	1,608	72	843	1,117	163
Customers / (Km ²)	7.9	8.0	9.8	484.3	8.5	127.1	34.2
Metered Rates:							
Residential (15 m³)							
Water (\$)	34.85	35.00	47.15	42.62	95.21	28.40	37.35
Sewer (\$)	47.52	47.74	66.73	42.06	54.20	30.80	40.67
Combined (\$)	82.37	82.74	113.88	84.68	149.41	59.20	78.01
Commercial (2" 500 m³)							
Water (\$)	735.60	737.59	991.86	1,120.21	1,108.45	941.20	1,083.47
Sewer (\$)	1,060.52	1,073.35	1,332.42	1,164.69	935.92	1,010.80	1,198.86
Combined (\$)	1,796.12	1,810.94	2,324.28	2,284.90	2,044.37	1,952.00	2,282.33
Industrial (4" 4,000 m³)							
Water (\$)	4,766.10	4,774.60	6,948.20	9,216.74	6,556.07	7,085.00	8,469.99
Sewer (\$)	7,110.28	7,227.34	9,296.26	9,098.79	6,512.58	7,595.00	9,398.35
Combined (\$)	11,876.38	12,001.95	16,244.46	18,315.53	13,068.65	14,680.00	17,868.34
Miscellaneous Fees:							
Bulk Water Rate \$/m³	3.08	3.14	4.410	4.440	2.820	2.550	2.102
Holding Tank Waste \$/m³				25.020	n/a	8.500	
Blended Septic/Holding \$/m³	14.71	15.00	23.180				9.240
Septic Rate \$/m³				25.020	n/a	n/a	

**WATER AND WASTEWATER FEES AND SERVICE CHARGES BY-LAW
INDEX OF SCHEDULES**

Schedule	Division
A	Water and Wastewater Metered Charges
B	Water and Wastewater Bulk Service Charges
C	Water and Wastewater General Fees
D	Water and Wastewater Access Refusal and Tampering Charges
E	Fees and Charges Cost Calculation Template

Note: Housekeeping changes, if any, will be highlighted on the related schedule.

Schedule A - Metered Charges

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater Metered Charges		Description	2020 Charge	2021 Charge	% Increase
Water					
Consumption Charges		\$/m3	\$0.9740	\$0.9747	0.07%
Basic Charges:	\$/month based on domestic service size requirements		see below	see below	n/a
	Service Size:				
	mm	inches			
R1/C1	16 & 19	5/8 & 3/4	\$20.24	\$20.38	0.67%
R2/C2	25	1	\$20.24	\$20.38	0.67%
R3/C3	37	1.5	\$114.38	\$115.14	0.67%
R4/C4	50	2	\$248.60	\$250.25	0.67%
C5	75	3	\$437.47	\$440.39	0.67%
C6	100	4	\$870.09	\$875.89	0.67%
C7	150	6	\$1,618.51	\$1,629.30	0.67%
C8	200	8	\$2,764.52	\$2,782.96	0.67%
Flat Rate	Consumption charge: 15 m3/month (20 m3/month in 2020)		\$19.48	\$14.62	-24.95%
	R1/C1 Basic Charge		\$20.24	\$20.38	0.67%
	Total Flat Rate		\$39.72	\$35.00	-11.89%
Standby Charge	When a property temporarily discontinues the supply of water or when a property is being developed or re-developed, a standby charge is billed based on the basic rate for the applicable service size until connection is in place. The standby charge represents the Basic Water charge.				
Wastewater					
Consumption Charges		\$/m3	\$1.5104	\$1.5425	2.12%
Basic Charges:	\$/month based on domestic service size requirements		see below	see below	n/a
	Service Size:				
	mm	inches			
R1/C1	16 & 19	5/8 & 3/4	\$24.86	\$24.60	-1.05%
R2/C2	25	1	\$24.86	\$24.60	-1.05%
R3/C3	37	1.5	\$140.47	\$139.00	-1.05%
R4/C4	50	2	\$305.31	\$302.10	-1.05%
C5	75	3	\$537.28	\$531.63	-1.05%
C6	100	4	\$1,068.59	\$1,057.36	-1.05%
C7	150	6	\$1,987.75	\$1,966.87	-1.05%
C8	200	8	\$3,395.21	\$3,359.54	-1.05%
Flat Rate	Consumption charge: 15 m3/month (20 m3/month in 2020)		\$30.21	\$23.14	-23.41%
	R1/C1 Basic Charge		\$24.86	\$24.60	-1.05%
	Total Flat Rate		\$55.07	\$47.74	-13.31%
Standby Charge	When a property temporarily discontinues the use of the wastewater system or when a property is being developed or re-developed and discontinues the use of the wastewater system, a standby charge is billed based on the basic rate for the applicable service size until connection is in place. The standby charge represents the Basic Wastewater charge.				
Water and Wastewater Arrears					
Transfer to Taxes	Non-payment will result in the outstanding amounts due being transferred to the current property owners tax account within 60 days.				
Transfer to Taxes - Tenants	Non-payment by a tenant will result in the outstanding amount due being transferred to the property owner's tax account within 60 days.				

Schedules should be read in conjunction with the
By-Law for all applicable terms and conditions.

Water and Wastewater Bulk Service Charges	Description	2020 Charge	2021 Charge	% Increase
Water				
Bulk Water Consumption Rate	\$/m3	\$3.08	\$3.14	2.00%
Bulk Water Administration Fee	for months with billable consumption	\$17.62	\$17.97	2.00%
Bulk Water	Account Activation Fee (note: accounts will be deactivated if there is no consumption in the prior twelve month calendar year)	\$28.90	\$29.48	2.00%
Bulk Water	Re-Activation Fee	\$28.90	\$29.48	2.00%
New Credit Wholesale Rate	\$/m3 (12% reduction of metered water charge based on agreement)	\$0.86	\$0.86	0.07%
Wastewater				
Bulk Wastewater Disposal	Leachate - Local Volumetric Charge (\$/m3)	\$21.41	\$20.47	-4.41%
Bulk Wastewater Disposal	Leachate - Base Charge	\$724,200	\$724,200	0.00%
Bulk Wastewater Disposal	Leachate - Haldimand Leachate Capital Charge (annual)	\$27,137	\$27,137	0.00%
Effluents exceeding the wastewater use by-law limits		cost recovery plus Admin Fee	cost recovery plus Admin Fee	n/a
Bulk Wastewater Disposal Consumption Rate	Blended Septic/Holding Toilet Waste (per m3)	\$14.71	\$15.00	2.00%
Bulk Wastewater Disposal Administration Fee	Septic/Holding Tank/Portable Toilet Hauler Administration Fee (per month) for months with billable disposable volumes	\$17.62	\$17.97	2.00%

Schedule C - General Fees

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater General Fees	Description	2020 Change	2021 Charge	% Increase
Connection Permits and Fees				
Charges payable to the Corporation of Haldimand County for permits, inspections, material and labour. Charges vary depending on type and size of connection.				
Missed Appointment Fee		\$95	\$97	2.11%
Water Connection	Main to Street Line: Includes Inspection and Main Tap (contractor to supply all materials)	\$364	\$371	1.92%
Water Connection	Main to House: Includes Inspection and Main Tap (contractor to supply all materials - 3/4" to 2")	\$459	\$468	1.96%
Water Meter	Water Meter for new construction	Meter Cost	Meter Cost	n/a
	5/8" or 3/4" Meter	\$293	\$299	2.05%
	1' Meter	\$345	\$352	2.03%
	1.5" Meter	\$669	\$682	1.94%
	2" Meter	\$868	\$885	1.96%
Water Main Service Connection 100mm (4") Diameter and Larger	Inspection includes: operating valves to isolate main, installation inspection, pressure test verification, meter and backflow installation, hi range chlorine sampling, flushing (contractor to tap main and supply all materials)	\$95 per hour	\$97 per hour	2.11%
Bacteriological Testing for New 100mm (4") Diameter & Larger	Water Mains or Services - includes sampling and transport to accredited laboratory per sampling site	\$197	\$201	2.03%
Water Disconnection Inspection	Inspection Only (contractor to supply all materials)	\$95	\$97	2.11%
Sanitary Sewer Service Connection 100mm (4") Diameter	Main to Street Line - Includes Inspection and Main Tap (contractor to supply all materials)	\$364	\$371	1.92%
Other Sanitary Sewer Service Connection Diameters	Main to Street Line: 150mm (6") or Greater Diameter: Inspection Only	\$173	\$176	1.73%
Sanitary Sewer Disconnection Inspection	Inspection Only (contractor to supply all materials)	\$95	\$97	2.11%
Connection Fees	Existing house to connect to the water system - per Development Charges By-law for Singles and Semis	per Development Charges By-law	per Development Charges By-law	n/a
Connection Fees	Existing house to connect to the sewer system - per Development Charges By-law for Singles and Semis	per Development Charges By-law	per Development Charges By-law	n/a
Connection Fees	Monthly Fee for new construction prior to the meter installation. Based on Flat Rate of 20 m3 volume for Water and Wastewater. Monthly fee will be charged until a water meter is installed.	Flat Rate Water and Wastewater	Flat Rate Water and Wastewater	n/a
Testing of Water Meters				
Testing Requests	Customers may request that their water meter be tested. If the meter is found to be accurate, the customer must pay carrying charges and cost of testing, in addition to payment in full of the bill(s) in question. The following is an excerpt from Haldimand County's Water Use By-Law describing how the charge for testing of meters works.			
	"No person shall test any meter except the Water Purveyor. The Water Purveyor shall remove and test any meter by an owner or agent of the owner. If the meter is found to be inaccurate, Haldimand shall adjust the water bill accordingly. A new or rebuilt displacement meter from 17mm (5/8) to 50mm (2") in size will be deemed to be inaccurate if it records outside of the accuracy limits of 98.5 to 101.5 percent on high and intermediate flows and 95.0 to 101.0 percent on low flows. New and rebuilt compound meters, turbine meters, multi-jet meters and propeller meters from 50mm (2") to 250mm (10") in size will be deemed to be inaccurate if they record 2 percent higher or lower than the manufacturers' recommended accuracy limits. Repaired meters of all sizes will be deemed to be inaccurate if they record outside of the accuracy limit of 90 percent minimum. A rebuilt meter is defined as one that has had the measuring element replaced with a factory-made new unit. A repaired meter is defined as one that has had the old measuring element cleaned and refurbished."			
External Testing	Testing done at customer's request - includes meter removal, shipment and cost of test	100% cost recovery	100% cost recovery	n/a
Water Turn On/Off				
A customer may request their water be turned on or off due to an internal plumbing problem or for seasonal protection of the plumbing. Haldimand County Finance may initiate a turn off due to non-payment of a bill. The following is an excerpt of Haldimand County's Water Use By-Law.				
"No person shall turn off or turn on a water service except the Water Purveyor. If the Water Purveyor is requested to turn off or turn on a water service, a service charge as detailed in Miscellaneous Charges is to be paid, it being understood that no water service will be turned off or turned on unless the consumer or another person authorized in writing to act on his behalf, is present on the premises."				
During Normal Working Hours	Water Turn On	\$95	\$97	2.11%
During Normal Working Hours	Water Turn Off	\$95	\$97	2.11%
During Normal Working Hours	Water Turn On/Off Same Day for Fix and Repair	\$107	\$109	1.87%
During Normal Working Hours	Water Turn On and Meter Reconnection	\$107	\$109	1.87%

Schedule C - General Fees

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater General Fees	Description	2020 Change	2021 Charge	% Increase
During Normal Working Hours	Water Turn Off and Meter Disconnection	\$107	\$109	1.87%
During Normal Working Hours	Water Meter Removal or Install	\$20	\$20	0.00%
Outside of Normal Working Hours	Water Turn On	\$209	\$213	1.91%
Outside of Normal Working Hours	Water Turn Off	\$209	\$213	1.91%
Outside of Normal Working Hours	Water Turn On and Meter Reconnection	\$251	\$256	1.99%
Outside of Normal Working Hours	Water Turn Off and Meter Disconnection	\$251	\$256	1.99%
Outside of Normal Working Hours	Water Meter Removal or Install	\$42	\$43	2.38%
Winter Control Service Calls				
Customers may call the County to perform certain services caused by cold weather conditions.				
Thawing Frozen Water Service Lines	During Normal Working Hours (per hour) (min. 1 hr)	\$142	\$145	2.11%
Thawing Frozen Water Service Lines	Outside of Normal Working Hours (per hour) (min. 2 hrs)	\$250	\$255	2.00%
Replacement of Water Meter due to Frost Plate damage	During Normal Working Hours	Meter Cost plus \$95	Meter Cost plus \$97	2.11%
Replacement of Water Meter due to Frost Plate damage	Outside of Normal Working Hours	Meter Cost plus \$249	Meter Cost plus \$254	2.01%
	5/8" or 3/4" Meter	\$293	\$299	2.05%
	1" Meter	\$345	\$352	2.03%
	1.5" Meter	\$669	\$682	1.94%
	2" Meter	\$868	\$885	1.96%
Sanitary Sewer Rodding/Teley Video				
If County staff determine that a sewer line blockage is the property owner's responsibility, the charges below will be billed. Services provided outside of normal working hours will be charged a minimum 2 hours.				
Sanitary Sewer Rodding	During Normal Working Hours - each full or additional hours (min. 1 hr)	\$278	\$284	2.16%
Sanitary Sewer Rodding	Outside of Normal Working Hours - each full or additional hours (min. 2 hrs)	\$489	\$499	2.04%
Sewer Video	Sewers will be videoed during normal working hours only. Rate is per hour with a minimum of a one (1) hour charge	\$236	\$241	2.12%
Dye Testing	During normal working hours (min. 1 hr)	\$139	\$142	2.16%
Dye Testing	Outside of normal working hours (min. 2 hrs)	\$245	\$250	2.04%
Vactor Charge	During normal working hours (min. 1 hr)	\$290	\$296	2.07%
Vactor Charge	Outside of normal working hours (min. 2 hrs)	\$531	\$542	2.07%
Wastewater Charges				
Sewer Sludge Storage Costs	Sludge Storage - Townsend Lagoon per Cubic Meter (m3)	\$4.751	\$4.846	2.00%
Sanitary Discharge Agreement	Over-strength discharge fee formula "R" value ("R" means the rate for sewage treatment in\$/m3 of sewage flow as set out from time to time by the County)	\$1.04	\$1.07	2.00%
Sanitary Discharge Agreement	New discharger information report administrative fee	\$253	\$258	1.98%
Sanitary Discharge Agreement	Existing discharger information report administration fee	\$253	\$258	1.98%
Sanitary Discharge Agreement	Sanitary discharge agreement annual administration fee	\$1,517	\$1,547	1.98%
Sanitary Discharge Agreement	Sanitary discharge agreement amendment request application processing fee	\$253	\$258	1.98%
Sanitary Discharge Agreement	Application for a hauled sewage discharge permit processing fee	\$253	\$258	1.98%
Sanitary Discharge Agreement	Annual hauled sewage discharge permit processing fee	\$253	\$258	1.98%
Sanitary Discharge Agreement	Haldimand County assistance with all other additional requests	100% Cost Recovery	100% Cost Recovery	n/a
Wastewater Discharge Program	Application fee	\$253	\$258	1.98%
Wastewater Discharge Program	Engineering Compliance Report	100% Cost Recovery	100% Cost Recovery	n/a
Wastewater Discharge Program	Meter Testing, Meter Calibration, Meter Installation, Other administrative costs	100% Cost Recovery	100% Cost Recovery	n/a
Other Services				
Inspection of external services		100% Cost Recovery	100% Cost Recovery	n/a
Installation of Communication Antennae System on County Facilities	Other Agencies or Departments of the County	No Charge	No Charge	n/a
Installation of Communication Antennae System on County Facilities	Local Emergency Services, Provincial and Federal Agencies or Ministries per year, per mounting	\$2,766	\$2,821	1.99%
Installation of Communication Antennae System on County Facilities	Private Enterprises	Per Contract	Per Contract	n/a

Fees effective February 1st, 2021 unless otherwise stated.

Schedule C - General Fees

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater General Fees	Description	2020 Change	2021 Charge	% Increase
Administration Fees and Late Payment Interest Charges				
Note: the following charges may be administered by a 3rd party on behalf of the County				
Arrears Certificate		\$16.50	\$16.75	1.52%
Non-sufficient Funds Charge (NSF)		\$35.50	\$36.00	1.41%
Credit Reference/Credit Check		\$16.50	\$16.78	1.67%
Account Setup Charge		\$33.00	\$34.00	3.03%
Late Payment Interest Charges:				
	Per Month	1.25%	1.25%	n/a
	Per Year	15.00%	15.00%	n/a
Transfer to Property Tax Account for Collection	adding water and wastewater charges that remain unpaid after the due date, to the property tax owners account	\$33.00	\$34.00	3.03%

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater Access Refusal and Tampering Charges	Description	2020 Charge	2021 Charge	% Increase
Refusal of Entry for Inspection, Installation, Repair or Replacement of Meters/Equipment, Water Service Leaks				
These fees outline the applicable charges to residents who refuse access required for maintenance, inspection, installation, repair or replacement of meters/equipment.				
Disconnect from the System	Applicable to non-paying derelict properties. Costs to be recovered by the owner. Disconnect at property line or main is at the discretion of the County. Charges unpaid will be added to tax account following proper process	100% Cost Recovery	100% Cost Recovery	n/a
Refuse Access	Shut off - this is only an option if owner is refusing access and not paying their bill	100% Cost Recovery + continuation of monthly basic charge fee	100% Cost Recovery + continuation of monthly basic charge fee	n/a
Refuse Access	Monthly meter read estimate	\$31.50	\$32.00	1.59%
Refuse Access	Police attendance for enforcement	100% Cost Recovery	100% Cost Recovery	n/a
Refuse Access	Court costs to gain entry	100% Cost Recovery	100% Cost Recovery	n/a
Meter Pit Installation	Applicable cost for owners who refuse access to property	100% Cost Recovery	100% Cost Recovery	n/a
Tampering	Charge for tampering with Water Meter and/or Water Service. All costs of repairs to services and equipment will be recovered 100% in addition to the Tampering Charge and estimated consumption charges.	\$530.00	\$541.00	2.08%
When it is determined that a meter fails to register accurately the quantity of water consumed, during the period of such failure the quantity shall be estimated by the County.				

SCHEDULE E

FEES AND CHARGES COST CALCULATION TEMPLATE

Service/Activity to be calculated:

Description of Service/Activity:

Input required in yellow cells only.

The only items requiring input on this tab are those highlighted in yellow. This sheet is a summary tab of all of the input completed on the subsequent tabs and is used to calculate the final costs for the fee to be charged. There are hyperlinks in the title of each section below which will bring you directly to the tab where the input is required.

Please insert the name of the user fee under **Service/Activity to be calculated** along with a description of the fee under **Description of Service/Activity**.

If the fee is to be offset by a revenue source (i.e. Subsidized by levy, grant funding, etc), enter the percentage or the dollar value of the reduction under **Ancillary Revenues** on this tab.

Once all information has been input, the total fee will be calculated in cell **G59**. If you plan on adjusting the fee (i.e. Rounding, or changing for any other purpose), please input the adjust amount, or duplicate the amount in cell G59 in cell **G60**. Ensure you document why the value is different in the Comment section.

Finally, please select from the drop down beside **Applicable Taxes**. If you are unsure what applies here, please contact your financial analyst for assistance.

COSTS:	DESCRIPTION OF COSTS/SERVICES:	HOURS/UNITS:	ESTIMATED COSTS:
DIRECT COSTS:			
WAGES & BENEFITS:			
Staffing Costs:	Hours x Hourly Rate	0.00	\$0.00
Staffing Benefit Costs:	County Average Benefit Percentage	48%	\$0.00
Supervisor Costs:	Hours x Hourly Rate	0.00	\$0.00
Supervisor Benefit Costs:	County Average Benefit Percentage	48%	\$0.00
VEHICLE COSTS:			
	Vehicles Used:	# of Vehicles Used:	Operating Hours:
		0	
			\$0.00
			\$0.00
			\$0.00
ADMINISTRATIVE COSTS:			
Inspection Costs:	Number of Staff x Hours x Hourly Rate	0.00	\$0.00
Benefits:	County Average Benefit Percentage	48%	\$0.00
Photocopying	Cost of Photocopying & Paper		\$0.00
Mailing	Cost for Regular Mail		\$0.00
Filing	Copying & Filing Internal Copies		\$0.00
OTHER COSTS:			
	Description:	Cost Per Unit:	Units:
		\$0.00	0
		\$0.00	0
		\$0.00	0
			\$0.00
TOTAL DIRECT COSTS:			\$0.00
INDIRECT COSTS:			
Department Overhead Allocation	Allocation to Department of Allocation (%)		\$0.00
County General Admin Overhead	Council, CAO, Finance, Clerk's & General Overhead (%)		\$0.00
TOTAL INDIRECT COSTS:			\$0.00
TOTAL COSTS:			\$0.00
Less: Ancillary Revenues:	Grants & Offsetting Revenues	Percentage:	
		\$ Amount:	\$0.00
			\$0.00
CALCULATED USER FEE			\$0.00
ADJUSTED USER FEE APPROVED BY COUNCIL			\$0.00

Applicable Taxes

Final User Fee Including

Comments:

DRAFT RATE SUPPORTED
CAPITAL FORECAST
WATER & WASTEWATER



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	State of Good Repair/New Initiative	Explanation	Change Type	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Environmental Services - Wastewater														
Caledonia Wastewater Collection														
452044 - McClung SPS Forcemain Extension	New Initiative	Project added to connect McClung Sewage Pump Station to proposed wastewater treatment plant on North side of Caledonia. This project was not identified in the previous DC Study, but is fully related to growth and is provisionally being funded 100% through DC-Sewer Debt, subject to review in the next DC Study. This increase in debt and associated financing charges negatively impacts the associated funding sources.	Project Added						1,249,100					1,249,100
452045 - Nairne St. SPS Forcemain Extension	New Initiative	Project provisions for an extension to the existing sewer force main that connects the Nairne St. sewage pump station to the McClung sewage pump station. The extension will go in hand with a reversal in flow direction and convey sewage to proposed new wastewater treatment plant to be located on the north side of Caledonia. This project was not identified in the previous DC Study, but is fully related to increasing capacity for growth and is provisionally being funded 100% through DC-Sewer Debt, subject to review in the next DC Study. This increase in debt and associated financing charges negatively impacts the associated funding sources.	Project Added						1,249,100					1,249,100
452046 - McClung SPS Upgrades	New Initiative	Project added for additional pump and controls at the McClung SPS to increase pumping capability to support growth. This project was not identified in the previous DC Study, but is fully related to growth and is provisionally being funded 100% through DC-Sewer Debt, subject to review in the next DC Study. This increase in debt and associated financing charges negatively impacts the associated funding sources.	Project Added						313,100					313,100
452043 - Gravity Sewer Main Upsizing - Sutherland - Argyle to E. Edinburgh Sq [CIW] [W] [R]	State of Good Repair	Project added to upsize the Gravity Sewer Main. This project is funded partially through DC-Sewer and partially from the CRRF-Sewer reserve, the additional reserve draws negatively impacts the reserve balances.	Project Added	30,000	340,000									370,000
452050 - Gravity Sewer Main Upsizing - E. Edinburgh Sq to Caithness [CIW] [W] [R]	State of Good Repair	Project added to upsize the Gravity Sewer Main. This project is funded partially through DC-Sewer and partially from the CRRF-Sewer reserve, the additional reserve draws negatively impacts the reserve balances.	Project Added	25,000	260,000									285,000
452051 - Gravity Sewer Main Upsizing - Caithness to Nairne [R]	State of Good Repair	Project added to upsize the Gravity Sewer Main. This project is funded partially through DC-Sewer and partially from the CRRF-Sewer reserve, the additional reserve draws negatively impacts the reserve balances.	Project Added	25,000	130,000									155,000
452052 - Gravity Sewer Main Upsizing - Nairne to Pump Station	State of Good Repair	Project added to upsize the Gravity Sewer Main. This project is funded partially through DC-Sewer and partially from the CRRF-Sewer reserve, the additional reserve draws negatively impacts the reserve balances.	Project Added	15,000	130,000									145,000
Total Caledonia Wastewater Collection				95,000	860,000	-	-	-	2,811,300	-	-	-	-	3,766,300
Caledonia Wastewater Treatment														
452025 - Caledonia Wastewater Treatment Plant	New Initiative	Project construction accelerated from 2027 to 2025, engineering accelerated from 2025 to 2023. Anticipated financing costs also updated. This project is funded entirely from Development Charges and was included in the Haldimand County Development Charge Background Study, dated March 5, 2019. This shift advances the burden on the associated reserves.	Project Shifted	59,300	(25,300)	5,397,500		31,341,500		(37,255,900)				(482,900)
Total Caledonia Wastewater Treatment				59,300	(25,300)	5,397,500	-	31,341,500	-	(37,255,900)	-	-	-	(482,900)
Dunnville Wastewater Treatment														
456017 - Sludge Storage Cell #4 Upgrades and Screen	New Initiative	Project adjusted to reflect updated estimates on a lesser scope of work required. The resulting impact on the CRRF-Sewer reserve is positive	Scope Change		(25,000)	(300,000)								(325,000)
456019 - Digester Cover & Insulation	New Initiative	Project accelerated from 2023 to align with same project for Hagersville WWTP and so that cost saving opportunities associated with combining the work and equipment purchases can be realized. This project is partially funded through Development Charges and was included in the Haldimand County Development Charge Background Study, dated March 5, 2019. The remainder of funding is through the CRRF-Sewer reserve. The overall savings will allow for increased reserve flexibility in the future.	Project Shifted	375,000		(475,000)								(100,000)
456011 - Blower Replacement - High Efficiency & VFD	State of Good Repair	Project adjusted to reflect time of need for change out of blowers. Project is fully funded through CRRF-Sewer, maximizing the life of blowers allows for future savings and impacts the funds available in the years identified.	Project Shifted	(400,000)					200,000					(200,000)



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CAPITAL SUMMARY 1

	State of Good Repair/New Initiative	Explanation	Change Type	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
456012 - Aeration Diffuser System Replacement	State of Good Repair	Project adjusted to reflect time of need for change out of blowers. Project is fully funded through CRRF-Sewer, maximizing the life of blowers allows for future savings and impacts the funds available in the years identified.	Project Shifted	(400,000)	150,000		150,000							(100,000)
456027 - Clarifiers 1 & 2 Cross Collector Replacements	State of Good Repair	Project identified to replace existing cross collector mechanical equipment to restore operational functionality. This project is funded from the CRRF-Sewer reserve, the additional reserve draw negatively impacts the reserve balance.	Project Added	-	245,000									245,000
456028 - Clarifiers 1 & 2 Rebuild	State of Good Repair	Project added to replace mechanical equipment, weirs and hoppers to improve clarifier performance and functionality. This project is funded from the CRRF-Sewer reserve, the additional reserve draw negatively impacts the reserve balance.	Project Added		-	250,000								250,000
456029 - Clarifiers 3 & 4 Rebuild	State of Good Repair	Project added to replace mechanical equipment, weirs and hoppers to improve clarifier performance and functionality. This project is funded from the CRRF-Sewer reserve, the additional reserve draw negatively impacts the reserve balance.	Project Added			-			250,000					250,000
Total Dunnville Wastewater Treatment				(425,000)	370,000	(525,000)	150,000	-	450,000	-	-	-	-	20,000
Hagersville Wastewater Treatment														
453026 - Grit Removal System	New Initiative	Project shifted from 2021 to 2023 to allow for a design study to be completed in 2021 ahead of the project installations. This project is partially funded through Development Charges and was included in the Haldimand County Development Charge Background Study, dated March 5, 2019. The remainder of funding is through the CRRF-Sewer reserve. The shift allows for more time for collection of DC Receipts, while the net increase in cost has a negative impact on the associated reserves.	Project Shifted	(955,000)		1,000,000								45,000
453034 - WWTP SCADA Replacements	State of Good Repair	Project added to accommodate SCADA replacement requirements beyond what is annually planned. This project is partially funded through Development Charges as all SCADA upgrade projects have been through the DC Study. The remainder of funding is through the CRRF-Sewer reserve. These new costs negatively affect the associated reserves.	Project Added	230,000										230,000
Total Hagersville Wastewater Treatment				(725,000)	-	1,000,000	-	-	-	-	-	-	-	275,000
Townsend Lagoons														
457005 - Townsend Lagoon Clean Out	State of Good Repair	Project adjusted to reflect time of need of lagoon clean outs. Project is fully funded through CRRF-Sewer and costs shifted to the nearer future negatively affect the reserve in the short term.	Project Shifted	200,000				(170,000)			(350,000)			(320,000)
Total Townsend Lagoons				200,000	-	-	-	(170,000)	-	-	(350,000)	-	-	(320,000)
Total Environmental Services - Wastewater				(795,700)	1,204,700	5,872,500	150,000	31,171,500	3,261,300	(37,255,900)	(350,000)	-	-	3,258,400
Environmental Services - Water														
Caledonia Water Distribution														
472020 - North Water Storage Expansion	New Initiative	Project costs updated to include Storage Alternatives Assessment in 2021, Environmental Assessment and Land Acquisition in 2026, and update the costs expected for the design phase in 2028. This project is funded entirely from Development Charges and was included in the Haldimand County Development Charge Background Study, dated March 5, 2019. The additional funding from DC-Water Debt and an increase in associated financing costs negatively impacts the related funding source.	Scope Increase	80,000					586,900		237,600			904,500
472023 - Twinning of 450mm Water Main on Hwy 6	New Initiative	Project added to increase capacity due to growth and provide redundancy. This project was not identified in the previous DC Study, but is fully related to growth and is provisionally being funded 100% through DC-Water Debt, subject to review in the next DC Study. This increase in debt and associated financing charges negatively impacts the associated funding sources.	Project Added						1,560,100					1,560,100

	State of Good Repair/New Initiative	Explanation	Change Type	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
472005 - Elevated Storage Tank Replacement	State of Good Repair	Project costs reduced in 2021 to reflect current estimates for the Environmental Assessment. Project construction shifted from 2022 to 2023 due to revised schedule of when work is anticipated to begin, increased due to additional costs for decommissioning and demolition of the existing standpipe and changes in requirements for the new standpipe size. This project is partially funded through Development Charges and was included in the Haldimand County Development Charge Background Study, dated March 5, 2019. As this project is partially funded from Development Charges, a delay will provide additional time for collection of DC receipts, however an increase in cost will increase financing costs and negatively impact the associated reserve. This project is also partially funded from the Federal Gas Tax Reserve Fund and is subject to the terms of that agreement as well.	Scope Increase	(88,100)	(4,636,800)	7,510,600								2,785,700
472025 - Booster Station Upgrades	State of Good Repair	Project added to accommodate upgrades to pumping, disinfection, and control in order to supply peak hour demand from projected growth in Caledonia. This project is currently funded from the Federal Gas Tax Reserve Fund and is subject to the terms of that agreement, though the project will be reviewed in the next Development Charges Study and funding may be adjusted.	Project Added						1,500,000					1,500,000
472027 - East Edinburgh Square - Caithness to Sutherland [CIW] [R] [WW]	State of Good Repair	Project added for replacement of existing 100 mm cast iron water main and services to a new 150 mm water main and services. This project is funded from the CRRF-Water reserve, the additional reserve draw negatively impacts the reserve balance.	Project Added	20,000	180,000		-							200,000
472028 - West Edinburgh Square - Caithness to Sutherland [CIW] [R] [WW]	State of Good Repair	Project added for replacement of existing 100 mm cast iron water main and services to a new 150 mm water main and services. This project is funded from the CRRF-Water reserve, the additional reserve draw negatively impacts the reserve balance.	Project Added	20,000	175,000		-							195,000
472030 - Sutherland - Argyle to E Edinburgh Sq[CIW] [R] [WW]	State of Good Repair	Project added for replacement of existing 150 mm cast iron water main and services to a new 300 mm water main and services. This project is funded from the CRRF-Water reserve, the additional reserve draw negatively impacts the reserve balance.	Project Added	20,000	195,000									215,000
Total Caledonia Water Distribution				51,900	(4,086,800)	7,510,600	-	-	3,647,000	-	237,600	-	-	7,360,300
Jarvis Water Distribution														
474003 - Walpole St- Monson to Talbot [CIW] [R] [SS]	State of Good Repair	Project added for replacement of existing 150 mm cast iron water main and services to a new 200 mm water main and services. This project is funded from the CRRF-Water reserve, the additional reserve draw negatively impacts the reserve balance.	Project Added				293,000							293,000
Total Jarvis Water Distribution				-	-	-	293,000	-	-	-	-	-	-	293,000
Nanticoke Technical Reviews and Studies														
479068 - Nanticoke WTP Class EA Update	New Initiative	Project added for Environment Assessment Update required to preclude the Nanticoke WTP providing water to neighbouring communities. This project is funded from the CRRF-Water reserve, the additional reserve draw negatively impacts the reserve balance. A portion of this project expense may be recoverable from the benefitting communities, subject to agreements being established.	Project Added	125,000										125,000
Total Nanticoke Technical Reviews and Studies				125,000	-	-	-	-	-	-	-	-	-	125,000
Nanticoke Water Treatment Plant														
479060 - Pre-Treatment Upgrades	New Initiative	Project shifted from 2021 to 2022 due to the timing of the Norfolk Water Supply Study. Pending the outcome of that study, the work requirement may be adjusted. This project is currently funded by the Federal Gas Tax Reserve and is subject to the terms of that agreement.	Project Shifted	(200,000)	200,000									-
479061 - Lowlift Pump Replacement	State of Good Repair	Project shifted from 2021 to 2022 due to the timing of the Norfolk Water Supply Study. Pending the outcome of that study, the work requirement may be adjusted. As this project is partially funded from Development Charges, a delay will provide additional time for collection of DC receipts. This project is also partially funded from the Federal Gas Tax Reserve Fund and is subject to the terms of that agreement as well.	Project Shifted	(375,000)	375,000									-
479069 - Nanticoke WTP Intake Cofferdam Installation	New Initiative	Project added as part of the requirements of the Nanticoke WTP Intake Transfer. This project is largely funded by industry stakeholders, with \$20,400 funded through the CRRF-Water reserve, subject to cost sharing agreements with industries. This additional reserve draw negatively impacts the reserve balance.	Project Added		393,000									393,000



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CAPITAL SUMMARY 1

	State of Good Repair/New Initiative	Explanation	Change Type	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
479070 - Nanticoke WTP Intake Source Protection Measurers	New Initiative	Project added to reroute the storm sewer at the Nanticoke WTP Intake. This project is largely funded by industry stakeholders, with \$5,200 funded through the CRRF-Water reserve, subject to cost sharing agreements with industries. This additional reserve draw negatively impacts the reserve balance.	Project Added		100,000									100,000
479071 - Nanticoke WTP Intake Annual Site Maintenance & Inspections	State of Good Repair	Project added for annual reviews, assessments, inspections and maintenance at the Nanticoke WTP Intake. This project is largely funded by industry stakeholders, with \$7,800 funded through the CRRF-Water reserve in 2021 and approximately \$5,200/year in the future years, subject to cost sharing agreements with industries. This additional reserve draw negatively impacts the reserve balance.	Project Added	75,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	525,000
479072 - Nanticoke WTP Intake Site Fencing and Security	New Initiative	Project added for extending of fencing and security to cover the transferred Nanticoke WTP Intake. This project is largely funded by industry stakeholders, with \$5,200 funded through the CRRF-Water reserve, subject to cost sharing agreements with industries. This additional reserve draw negatively impacts the reserve balance.	Project Added		100,000									100,000
Total Nanticoke Water Treatment Plant				(500,000)	1,218,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	1,118,000
Water Distribution General														
471019 - Cast Iron Watermain Engineering	State of Good Repair	Project added for preliminary engineering and design of the Cast Iron Water main replacement project scheduled for 2024-2028. This project is funded from the CRRF-Water reserve, the additional reserve draw negatively impacts the reserve balance.	Project Added		-	100,000	-	-	-					100,000
Total Water Distribution General				-	-	100,000	-	-	-	-	-	-	-	100,000
Total Environmental Services - Water				(323,100)	(2,868,800)	7,660,600	343,000	50,000	3,697,000	50,000	287,600	50,000	50,000	8,996,300
Total Environmental Services - Water and Wastewater				(1,118,800)	(1,664,100)	13,533,100	493,000	31,221,500	6,958,300	(37,205,900)	(62,400)	50,000	50,000	12,254,700



Co-ordinated Projects

**CO-ORDINATED PROJECTS
FOR THE YEARS 2021 to 2030**

Project	Timing	TAX CAPITAL (preliminary information)						WATER AND WASTEWATER CAPITAL				Project Total
		Roads 2020 Open Projects	Roads 10 Year Forecast	Storm 2020 Open Projects	Storm 10 Year Forecast	Other 2020 Open Projects	Other 10 Year Forecast	Water 2020 Open Projects	Water 10 Year Forecast	Wastewater 2020 Open Projects	Wastewater 10 Year Forecast	
Caledonia												
Master Servicing Plan	2020, 2026	150,000	50,000	33,600	30,000	-	-	50,000	50,000	50,000	50,000	463,600
Argyle Bridge Watermain and Sanitary Sewer Relocation	2020, 2021		-		-		-		60,000	250,000	-	310,000
Blair St - Caithness to Park Lane	2021		100,000		-		-		150,000		-	250,000
Cameron St - Caithness to Ross	2021		120,000		-		-		150,000		-	270,000
Park Lane - Inverness to end	2021		150,000		-		-		200,000		-	350,000
Queen Ave - Caithness to end	2021		150,000		-		-		200,000		-	350,000
Sutherland St - Argyle St to E Edinburgh Sq	2021, 2022		285,000						215,000		370,000	870,000
East Edinburgh Sq - Caithness to Sutherland	2021, 2022		155,000						200,000		285,000	640,000
West Edinburgh Sq - Caithness to Sutherland	2021, 2022		155,000						195,000		-	350,000
Caithness St - W Edinburgh Sq to Nairne	2021, 2022		75,000						-		155,000	230,000
Nairne St - Caithness to End	2021, 2022		140,000						-		145,000	285,000
Cayuga												
Master Servicing Plan	2024, 2030		60,000		30,000		-		50,000		50,000	190,000
Kerr St E - Winniet to 100 m west of Winniet	2022		80,000		-		-		100,000		-	180,000
Kerr St W - Ottawa St to Munsee	2022		80,000		-		-		120,000		-	200,000
Mohawk St E - Winniet east to end	2022		150,000		-		-		200,000		-	350,000
Norton St E - Winniet to 60 m west of Winniet	2022		30,000		-		-		60,000		-	90,000
Norton St W - Ottawa St W to end	2022		60,000		-		-		100,000		-	160,000
Ouse St N - Talbot to Cayuga St N	2022		220,000		-		-		330,000		-	550,000
Dunville												
Master Servicing Plan	2023, 2029		60,000		60,000		-		60,000		60,000	240,000
Alley way - Broad to Central Lane	2023		50,000		-		-		200,000		-	250,000
Main St E - 710 Main E to 50 m south	2023		20,000		-		-		70,000		-	90,000



Co-ordinated Projects

**CO-ORDINATED PROJECTS
FOR THE YEARS 2021 to 2030**

Project	Timing	TAX CAPITAL (preliminary information)						WATER AND WASTEWATER CAPITAL				Project Total
		Roads 2020 Open Projects	Roads 10 Year Forecast	Storm 2020 Open Projects	Storm 10 Year Forecast	Other 2020 Open Projects	Other 10 Year Forecast	Water 2020 Open Projects	Water 10 Year Forecast	Wastewater 2020 Open Projects	Wastewater 10 Year Forecast	
Hagersville												
Master Servicing Plan	2022, 2028		60,000		30,000		-		50,000		50,000	190,000
Foundry St - Tuscarora to end	2023		40,000		-		-		100,000		-	140,000
Victoria St - Tuscarora to Main St N	2023		200,000		-		-		300,000		-	500,000
Jarvis												
Master Servicing Plan	2025		15,000		15,000		-		20,000		15,000	65,000
Walpole Dr - Monson to Talbot	2024, 2026		232,500		400,000		-		293,000		-	925,500
Lake Erie Industrial Park												
Master Servicing Plan	2021, 2027		100,000		60,000		-		100,000		100,000	360,000
County Wide												
Asbestos Annual Inspection and Remediation	2020-2030		-		-	54,700	267,500	3,100	31,000	4,000	40,000	400,300
CCTV Inspection Program	2020-2030		-	25,000	250,000		-		-	50,000	600,000	925,000
Facility Condition Assessments	2020-2030		-		-		-	83,300	125,000	93,600	125,000	426,900
SCADA Maintenance	2020-2030		-		-		-	51,100	300,000	20,500	200,000	571,600
SCADA Master Plan	2021, 2026		-		-		-	35,000	70,000	35,000	70,000	210,000
SCADA Technical Support	2020-2030		-		-		-	91,800	400,000	61,200	400,000	953,000
Total - Water and Wastewater		150,000	2,837,500	58,600	875,000	54,700	267,500	314,300	4,499,000	564,300	2,715,000	12,335,900

Note - does not include prior year closed projects or prior year open projects with no impact in 2021-2030 or co-ordinated projects that do not have a water/wastewater component.

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HALDIMAND COUNTY
2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater & Water	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Stage: Draft Budget																	
Summary Wastewater																	
Wastewater Collection/Conveyance	490,800	3,404,100	755,000	457,000	230,000	3,166,300	225,000	367,500	222,500	355,000	9,673,200	(1,076,300)		(4,020,950)	(4,575,950)		(9,673,200)
Wastewater Treatment and Disposal	3,927,000	4,325,900	7,676,500	1,242,500	37,642,100	999,000	3,715,000	3,617,500	3,747,500	3,630,000	70,523,000	(3,241,200)		(48,058,350)	(19,223,450)		(70,523,000)
Total Wastewater Technical Reviews and Studies	65,000	50,000	30,000	25,000	15,000	50,000	50,000	25,000	30,000	25,000	365,000			(365,000)			(365,000)
Total Wastewater	4,482,800	7,780,000	8,461,500	1,724,500	37,887,100	4,215,300	3,990,000	4,010,000	4,000,000	4,010,000	80,561,200	(4,317,500)		(52,444,300)	(23,799,400)		(80,561,200)
Summary Water																	
Water Administration		50,000			10,000					2,949,000	3,009,000				(3,009,000)		(3,009,000)
Water Treatment	998,100	1,651,100	588,100	445,100	3,130,000	378,100	3,160,000	2,153,600	3,187,500	403,100	16,094,700	(6,099,800)	(2,143,400)	(3,085,400)	(4,766,100)		(16,094,700)
Water Distribution/Transmission	1,465,400	1,945,000	8,403,100	398,000	500,000	4,082,000	440,000	1,288,800	432,500	8,263,300	27,218,100	(7,834,300)		(14,253,030)	(5,130,770)		(27,218,100)
Water Technical Reviews and Studies	200,000	150,000	30,000	25,000	20,000	50,000	50,000	25,000	30,000	25,000	605,000			(400,000)	(205,000)		(605,000)
Total Water	2,663,500	3,796,100	9,021,200	868,100	3,660,000	4,510,100	3,650,000	3,467,400	3,650,000	11,640,400	46,926,800	(13,934,100)	(2,143,400)	(17,738,430)	(13,110,870)		(46,926,800)
Total Wastewater and Water	7,146,300	11,576,100	17,482,700	2,592,600	41,547,100	8,725,400	7,640,000	7,477,400	7,650,000	15,650,400	127,488,000	(18,251,600)	(2,143,400)	(70,182,730)	(36,910,270)		(127,488,000)
Funding																	
Summary Wastewater																	
Grants/Subsidies	(20,640)	(375,660)	-	(170,000)	-	(170,000)	(675,700)	(781,600)	(737,400)	(1,386,500)	(4,317,500)						
General Recoveries	-	-	-	-	-	-	-	-	-	-	-						
Development Charges	(2,040,010)	(3,038,390)	(5,914,400)	(186,850)	(37,103,500)	(2,954,350)	(308,400)	(343,550)	(271,900)	(282,950)	(52,444,300)						
Reserve/Reserve Funds	(2,422,150)	(4,365,950)	(2,547,100)	(1,367,650)	(783,600)	(1,090,950)	(3,005,900)	(2,884,850)	(2,990,700)	(2,340,550)	(23,799,400)						
Debenture Financing	-	-	-	-	-	-	-	-	-	-	-						
Total Wastewater	(4,482,800)	(7,780,000)	(8,461,500)	(1,724,500)	(37,887,100)	(4,215,300)	(3,990,000)	(4,010,000)	(4,000,000)	(4,010,000)	(80,561,200)						
Summary Water																	
Grants/Subsidies	(251,200)	(675,000)	(3,883,100)	-	(2,213,300)	(1,825,000)	(2,156,900)	(325,000)	(2,279,600)	(325,000)	(13,934,100)						
General Recoveries	(392,600)	(687,400)	(189,800)	(124,800)	(124,800)	(124,800)	(124,800)	(124,800)	(124,800)	(124,800)	(2,143,400)						
Development Charges	(375,250)	(234,700)	(3,266,300)	(50,620)	(328,780)	(2,230,600)	(342,080)	(2,731,750)	(332,100)	(7,846,250)	(17,738,430)						
Reserve/Reserve Funds	(1,644,450)	(2,199,000)	(1,682,000)	(692,680)	(993,120)	(329,700)	(1,026,220)	(285,850)	(913,500)	(3,344,350)	(13,110,870)						
Debenture Financing	-	-	-	-	-	-	-	-	-	-	-						
Total Water	(2,663,500)	(3,796,100)	(9,021,200)	(868,100)	(3,660,000)	(4,510,100)	(3,650,000)	(3,467,400)	(3,650,000)	(11,640,400)	(46,926,800)						
Total Wastewater and Water	(7,146,300)	(11,576,100)	(17,482,700)	(2,592,600)	(41,547,100)	(8,725,400)	(7,640,000)	(7,477,400)	(7,650,000)	(15,650,400)	(127,488,000)						



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Caledonia Wastewater Collection	240,000	865,000	185,000			2,811,300			2,500		4,103,800			(3,244,200)	(859,600)		(4,103,800)
Cayuga Wastewater Collection	30,800	1,579,100									1,609,900	(226,300)		(416,700)	(966,900)		(1,609,900)
Dunnville Wastewater Collection				5,000							5,000				(5,000)		(5,000)
Hagersville Wastewater Collection								2,500			2,500				(2,500)		(2,500)
Jarvis Wastewater Collection				97,000			5,000				102,000			(38,800)	(63,200)		(102,000)
Oswego Park Wastewater Collection		245,000									245,000				(245,000)		(245,000)
Wastewater Collection General	220,000	715,000	570,000	355,000	230,000	355,000	220,000	365,000	220,000	355,000	3,605,000	(850,000)		(321,250)	(2,433,750)		(3,605,000)
Total Wastewater Collection/Conveyance	490,800	3,404,100	755,000	457,000	230,000	3,166,300	225,000	367,500	222,500	355,000	9,673,200	(1,076,300)		(4,020,950)	(4,575,950)		(9,673,200)
Caledonia Wastewater Treatment Plant	1,559,300	2,531,900	5,747,500	28,500	37,249,100		80,000	145,000			47,341,300			(46,168,400)	(1,172,900)		(47,341,300)
Cayuga Wastewater Treatment Plant	10,000	719,000		165,000			19,000	5,000			918,000			(43,400)	(874,600)		(918,000)
Dunnville Wastewater Treatment Plant	821,000	911,000	730,000	150,000	16,000	450,000	16,000		16,000		3,110,000			(88,200)	(3,021,800)		(3,110,000)
Hagersville Wastewater Treatment Plant	1,089,700		1,022,000	10,000			120,000	257,000			2,498,700			(574,000)	(1,924,700)		(2,498,700)
Jarvis Lagoons				450,000							450,000				(450,000)		(450,000)
LEIP Lagoons						350,000					350,000				(350,000)		(350,000)
Oswego Park Lagoons				275,000					5,000		280,000				(280,000)		(280,000)
Townsend Lagoons	200,000				200,000						400,000				(400,000)		(400,000)
Wastewater Treatment General	247,000	164,000	177,000	164,000	177,000	199,000	3,480,000	3,210,500	3,726,500	3,630,000	15,175,000	(3,241,200)		(1,184,350)	(10,749,450)		(15,175,000)
Total Wastewater Treatment and Disposal	3,927,000	4,325,900	7,676,500	1,242,500	37,642,100	999,000	3,715,000	3,617,500	3,747,500	3,630,000	70,523,000	(3,241,200)		(48,058,350)	(19,223,450)		(70,523,000)
Caledonia Wastewater Technical Reviews and Studies						50,000					50,000			(50,000)			(50,000)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Cayuga Wastewater Technical Reviews and Studies		10,000		25,000						25,000	60,000			(60,000)			(60,000)
Dunnville Wastewater Technical Reviews and Studies		15,000	30,000						30,000		75,000			(75,000)			(75,000)
Hagersville Wastewater Technical Reviews and Studies	15,000	25,000						25,000			65,000			(65,000)			(65,000)
Jarvis Wastewater Technical Reviews and Studies					15,000						15,000			(15,000)			(15,000)
LEIP Wastewater Technical Reviews and Studies	50,000						50,000				100,000			(100,000)			(100,000)
Total Wastewater Technical Reviews and Studies	65,000	50,000	30,000	25,000	15,000	50,000	50,000	25,000	30,000	25,000	365,000			(365,000)			(365,000)
Total Wastewater	4,482,800	7,780,000	8,461,500	1,724,500	37,887,100	4,215,300	3,990,000	4,010,000	4,000,000	4,010,000	80,561,200	(4,317,500)		(52,444,300)	(23,799,400)		(80,561,200)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Collection/Conveyance	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Caledonia Wastewater Collection																	
Replacement/State of Good Repair																	
452006 Argyle Bridge Sanitary Sewer Relocation [W]	60,000										60,000				(60,000)		(60,000)
452024 Forfar St. Storage Building Roof Replacement									2,500		2,500				(2,500)		(2,500)
452030 Nairne Pump Station Wet Well Gas Monitoring Equipment Replacement	25,000										25,000				(25,000)		(25,000)
452032 Nairne St. Pump Station GENSET Replacement			185,000								185,000				(185,000)		(185,000)
452041 Nairne Pump Station Roof Repairs		5,000									5,000				(5,000)		(5,000)
452043 Gravity Sewer Main Upsizing - Sutherland - Argyle to E. Edinburgh Sq [CIW] [W] [R]	30,000	340,000									370,000				(370,000)		(370,000)
452049 Paisley Pump Station - Pump 1 & 2 Rebuilds	60,000										60,000				(60,000)		(60,000)
452050 Gravity Sewer Main Upsizing - E. Edinburgh Sq to Caithness [CIW] [W] [R]	25,000	260,000									285,000			(210,900)	(74,100)		(285,000)
452051 Gravity Sewer Main Upsizing - Caithness to Nairne [R]	25,000	130,000									155,000			(114,700)	(40,300)		(155,000)
452052 Gravity Sewer Main Upsizing - Nairne to Pump Station	15,000	130,000									145,000			(107,300)	(37,700)		(145,000)
Total Replacement/State of Good Repair	240,000	865,000	185,000						2,500		1,292,500			(432,900)	(859,600)		(1,292,500)
New/Enhanced Service																	
452044 McClung SPS Forcemain Extension						1,249,100					1,249,100			(1,249,100)			(1,249,100)
452045 Nairne St. SPS Forcemain Extension						1,249,100					1,249,100			(1,249,100)			(1,249,100)
452046 McClung SPS Upgrades						313,100					313,100			(313,100)			(313,100)
Total New/Enhanced Service						2,811,300					2,811,300			(2,811,300)			(2,811,300)
Total Caledonia Wastewater Collection	240,000	865,000	185,000			2,811,300			2,500		4,103,800			(3,244,200)	(859,600)		(4,103,800)



HALDIMAND COUNTY
2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debt/Debt Financing	Total Financing
Wastewater Collection/Conveyance	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030								
Cayuga Wastewater Collection																		
Replacement/State of Good Repair																		
455004 Ouse St PS Replacements		1,272,200										1,272,200			(305,300)	(966,900)	(1,272,200)	
Total Replacement/State of Good Repair		1,272,200										1,272,200			(305,300)	(966,900)	(1,272,200)	
New/Enhanced Service																		
455009 Ouse St Forcemain Twinning	30,800	306,900										337,700	(226,300)		(111,400)		(337,700)	
Total New/Enhanced Service	30,800	306,900										337,700	(226,300)		(111,400)		(337,700)	
Total Cayuga Wastewater Collection	30,800	1,579,100										1,609,900	(226,300)		(416,700)	(966,900)	(1,609,900)	
Dunnville Wastewater Collection																		
Replacement/State of Good Repair																		
456023 Broad St Pump Station Roof Repairs				5,000								5,000				(5,000)	(5,000)	
Total Replacement/State of Good Repair				5,000								5,000			(5,000)		(5,000)	
Total Dunnville Wastewater Collection				5,000								5,000			(5,000)		(5,000)	
Hagersville Wastewater Collection																		
Replacement/State of Good Repair																		
453009 Hagersville Tuscarora St Operations Building Roof								2,500				2,500				(2,500)	(2,500)	
Total Replacement/State of Good Repair								2,500				2,500			(2,500)		(2,500)	
Total Hagersville Wastewater Collection								2,500				2,500			(2,500)		(2,500)	
Jarvis Wastewater Collection																		
Replacement/State of Good Repair																		
454012 Jarvis/Talbot Pump Station Roof							5,000					5,000				(5,000)	(5,000)	
Total Replacement/State of Good Repair							5,000					5,000			(5,000)		(5,000)	



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Collection/Conveyance	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Jarvis Wastewater Collection																	
New/Enhanced Service																	
454006 Walpole St - Sewer Pipe Upsize (Peel to Talbot)				97,000							97,000			(38,800)	(58,200)		(97,000)
Total New/Enhanced Service				97,000							97,000			(38,800)	(58,200)		(97,000)
Total Jarvis Wastewater Collection				97,000			5,000				102,000			(38,800)	(63,200)		(102,000)
Oswego Park Wastewater Collection																	
Replacement/State of Good Repair																	
458002 Oswego Pump Station Forcemain Replacement		225,000									225,000				(225,000)		(225,000)
458004 Oswego Pump Station Control Logic Reprogramming		20,000									20,000				(20,000)		(20,000)
Total Replacement/State of Good Repair		245,000									245,000				(245,000)		(245,000)
Total Oswego Park Wastewater Collection		245,000									245,000				(245,000)		(245,000)
Wastewater Collection General																	
Replacement/State of Good Repair																	
451001 Inflow & Infiltration Program Support	25,000	35,000	25,000	35,000	25,000	35,000	25,000	35,000	25,000	35,000	300,000			(45,000)	(255,000)		(300,000)
451005 CCTV Inspections - Structural Ass'ments [SS] - Engineering	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000				(250,000)		(250,000)
451008 Collection System - Annual Repair	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	600,000				(600,000)		(600,000)
451012 Sewer Manhole Repairs (I&I)	75,000		75,000		75,000		75,000		75,000		375,000			(56,250)	(318,750)		(375,000)
451013 Sanitary Sewer Rehabilitations (I&I)		200,000		200,000		200,000		200,000		200,000	1,000,000	(850,000)		(150,000)			(1,000,000)
451017 CCTV Inspections - Operations	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	350,000				(350,000)		(350,000)
451022 Confined Space Entry Equipment Replacements		10,000			10,000			10,000			30,000				(30,000)		(30,000)
451023 Pump Station Repairs/Replacement		350,000	350,000								700,000			(70,000)	(630,000)		(700,000)



HALDIMAND COUNTY
2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Collection/Conveyance	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Wastewater Collection General																	
Total Replacement/State of Good Repair	220,000	715,000	570,000	355,000	230,000	355,000	220,000	365,000	220,000	355,000	3,605,000	(850,000)		(321,250)	(2,433,750)		(3,605,000)
Total Wastewater Collection General	220,000	715,000	570,000	355,000	230,000	355,000	220,000	365,000	220,000	355,000	3,605,000	(850,000)		(321,250)	(2,433,750)		(3,605,000)
Total Wastewater Collection/Conveyance	490,800	3,404,100	755,000	457,000	230,000	3,166,300	225,000	367,500	222,500	355,000	9,673,200	(1,076,300)		(4,020,950)	(4,575,950)		(9,673,200)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Treatment and Disposal	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
Caledonia Wastewater Treatment Plant																	
Replacement/State of Good Repair																	
452003 WWTP – SCADA Computer & Network Replmt			20,000					20,000			40,000				(40,000)		(40,000)
452023 WWTP Filter Building Roof Replacement			150,000								150,000				(150,000)		(150,000)
452026 Blower Replmts		350,000									350,000				(350,000)		(350,000)
452029 WTP Electrical Panels and VFD Inspection/Maintenance				10,000				10,000			20,000				(20,000)		(20,000)
452031 Remotes–Control Equipment Replacement(SCADA)		34,500		18,500			80,000				133,000				(133,000)		(133,000)
452033 WWTP GENSET Replacement					225,000						225,000				(225,000)		(225,000)
452034 WWTP PLC Replacements								115,000			115,000			(27,600)	(87,400)		(115,000)
452039 Control Building Roof Repairs			5,000								5,000				(5,000)		(5,000)
452048 Filter #2 Refurbishment and Media Replacement		75,000									75,000				(75,000)		(75,000)
Total Replacement/State of Good Repair		459,500	175,000	28,500	225,000		80,000	145,000			1,113,000			(27,600)	(1,085,400)		(1,113,000)
New/Enhanced Service																	
452025 Caledonia Wastewater Treatment Plant	1,559,300	2,072,400	5,397,500		37,024,100						46,053,300			(46,053,300)			(46,053,300)
452027 Sludge Storage Tank Retrofit			175,000								175,000			(87,500)	(87,500)		(175,000)
Total New/Enhanced Service	1,559,300	2,072,400	5,572,500		37,024,100						46,228,300			(46,140,800)	(87,500)		(46,228,300)
Total Caledonia Wastewater Treatment Plant	1,559,300	2,531,900	5,747,500	28,500	37,249,100		80,000	145,000			47,341,300			(46,168,400)	(1,172,900)		(47,341,300)
Cayuga Wastewater Treatment Plant																	
Replacement/State of Good Repair																	
455005 Remotes–Control Equipment Replacement(SCADA)		50,000									50,000			(5,000)	(45,000)		(50,000)
455012 WTP Electrical Panel and VFD Inspection/Maintenance				5,000				5,000			10,000				(10,000)		(10,000)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Treatment and Disposal	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Cayuga Wastewater Treatment Plant																	
455013 Mechanical Aerator (rotor) Replacement		375,000									375,000				(375,000)		(375,000)
455015 WWTP SCADA Computer & Network Replmt		19,000					19,000				38,000				(38,000)		(38,000)
455016 WWTP PLC Replacements				160,000							160,000			(38,400)	(121,600)		(160,000)
455018 Oxidation Ditch Cleanout & Inspection	10,000										10,000				(10,000)		(10,000)
Total Replacement/State of Good Repair	10,000	444,000		165,000			19,000	5,000			643,000			(43,400)	(599,600)		(643,000)
New/Enhanced Service																	
455011 Twinning of Headworks Screen		275,000									275,000				(275,000)		(275,000)
Total New/Enhanced Service		275,000									275,000				(275,000)		(275,000)
Total Cayuga Wastewater Treatment Plant	10,000	719,000		165,000			19,000	5,000			918,000			(43,400)	(874,600)		(918,000)
Dunnville Wastewater Treatment Plant																	
Replacement/State of Good Repair																	
456011 Blower Replacement - High Efficiency & VFD	200,000					200,000					400,000				(400,000)		(400,000)
456012 Aeration Diffuser System Replacement		150,000		150,000							300,000				(300,000)		(300,000)
456013 Remotes–Control Equipment Replacement(SCADA)	55,000										55,000			(13,200)	(41,800)		(55,000)
456015 Odour Control Media Replacement	16,000				16,000				16,000		48,000				(48,000)		(48,000)
456016 WWTP Wet-Well Valve Replacements		400,000									400,000				(400,000)		(400,000)
456018 WWTP SCADA Computer & Network Replmt		16,000					16,000				32,000				(32,000)		(32,000)
456021 Digester Transfer Pump Replacement			30,000								30,000				(30,000)		(30,000)
456022 Digester Building Roof Repairs		5,000									5,000				(5,000)		(5,000)
456024 Supernatant Pump Control Panel Replacement	20,000										20,000				(20,000)		(20,000)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
Wastewater Treatment and Disposal																	
Dunnville Wastewater Treatment Plant																	
456025 Clarifier Inlet Gate Replacements (6)	70,000										70,000				(70,000)		(70,000)
456026 Septage Building Gas Detection Replacement	25,000										25,000				(25,000)		(25,000)
456027 Clarifiers 1 & 2 Cross Collector Replacements		245,000									245,000				(245,000)		(245,000)
456028 Clarifiers 1 & 2 Rebuild			250,000								250,000				(250,000)		(250,000)
456029 Clarifiers 3 & 4 Rebuild						250,000					250,000				(250,000)		(250,000)
456031 Wet Well Lighting and Grating Replacements	35,000										35,000				(35,000)		(35,000)
456032 Dry Well Building Repairs	25,000										25,000				(25,000)		(25,000)
Total Replacement/State of Good Repair	446,000	816,000	280,000	150,000	16,000	450,000	16,000		16,000		2,190,000			(13,200)	(2,176,800)		(2,190,000)
New/Enhanced Service																	
456017 Sludge Storage Cell #4 Upgrades and Screen		95,000	450,000								545,000				(545,000)		(545,000)
456019 Digester Cover & Insulation	375,000										375,000		(75,000)	(300,000)			(375,000)
Total New/Enhanced Service	375,000	95,000	450,000								920,000		(75,000)	(845,000)			(920,000)
Total Dunnville Wastewater Treatment Plant	821,000	911,000	730,000	150,000	16,000	450,000	16,000		16,000		3,110,000			(88,200)	(3,021,800)		(3,110,000)
Hagersville Wastewater Treatment Plant																	
Replacement/State of Good Repair																	
453002 WWTP SCADA Computer & Network Replmt			22,000					22,000			44,000				(44,000)		(44,000)
453019 WWTP Inlet Works Building Roof Replacement	50,000										50,000				(50,000)		(50,000)
453021 WWTP Sludge Holding Building Roof Replacement	20,000										20,000				(20,000)		(20,000)
453022 Remotes–Control Equipment Replacement(SCADA)	45,000							55,000			100,000		(24,000)	(76,000)			(100,000)
453023 WTP Electrical Panel and VFD Inspection/Maintenance				10,000				10,000			20,000				(20,000)		(20,000)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
Wastewater Treatment and Disposal																	
Hagersville Wastewater Treatment Plant																	
453024 WWTP Control Building Roof Replacement	130,000										130,000				(130,000)		(130,000)
453027 WWTP PLC Replacements							120,000	170,000			290,000			(69,600)	(220,400)		(290,000)
453029 Digester Tanks - Level Measurement Equipment Replacement	18,000										18,000				(18,000)		(18,000)
453033 WWTP Sludge Return Building Roof Repairs	25,000										25,000				(25,000)		(25,000)
453034 WWTP SCADA Replacements	230,000										230,000			(55,200)	(174,800)		(230,000)
453036 Raw Sewage Flow Meter Replacement	20,000										20,000				(20,000)		(20,000)
Total Replacement/State of Good Repair	538,000		22,000	10,000			120,000	257,000			947,000			(148,800)	(798,200)		(947,000)
New/Enhanced Service																	
453025 Digester Covers and Insulation	475,000										475,000			(95,000)	(380,000)		(475,000)
453026 Grit Removal System	61,700		1,000,000								1,061,700			(330,200)	(731,500)		(1,061,700)
453031 Filter Waste Pump System Improvement	15,000										15,000				(15,000)		(15,000)
Total New/Enhanced Service	551,700		1,000,000								1,551,700			(425,200)	(1,126,500)		(1,551,700)
Total Hagersville Wastewater Treatment Plant	1,089,700		1,022,000	10,000			120,000	257,000			2,498,700			(574,000)	(1,924,700)		(2,498,700)
Jarvis Lagoons																	
Replacement/State of Good Repair																	
454010 Jarvis Lagoon Clean Out				450,000							450,000				(450,000)		(450,000)
Total Replacement/State of Good Repair				450,000							450,000				(450,000)		(450,000)
Total Jarvis Lagoons				450,000							450,000				(450,000)		(450,000)
LEIP Lagoons																	
Replacement/State of Good Repair																	
459005 LEIP Lagoon Clean Out						350,000					350,000				(350,000)		(350,000)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Wastewater Treatment and Disposal																	
LEIP Lagoons																	
Total Replacement/State of Good Repair						350,000					350,000				(350,000)		(350,000)
Total LEIP Lagoons						350,000					350,000				(350,000)		(350,000)
Oswego Park Lagoons																	
Replacement/State of Good Repair																	
458001 Main Pump Station Roof Replacement									5,000		5,000				(5,000)		(5,000)
458003 Oswego Lagoon Clean Out				275,000							275,000				(275,000)		(275,000)
Total Replacement/State of Good Repair				275,000					5,000		280,000				(280,000)		(280,000)
Total Oswego Park Lagoons				275,000					5,000		280,000				(280,000)		(280,000)
Townsend Lagoons																	
Replacement/State of Good Repair																	
457005 Townsend Lagoon Clean Out	200,000				200,000						400,000				(400,000)		(400,000)
Total Replacement/State of Good Repair	200,000				200,000						400,000				(400,000)		(400,000)
Total Townsend Lagoons	200,000				200,000						400,000				(400,000)		(400,000)
Wastewater Treatment General																	
Replacement/State of Good Repair																	
451003 Facility Condition Assessment [W]		25,000		25,000		25,000		25,000		25,000	125,000				(125,000)		(125,000)
451004 SCADA Master Plan Optimization	35,000					35,000					70,000			(16,800)	(53,200)		(70,000)
451007 SCADA Maintenance	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	200,000			(48,000)	(152,000)		(200,000)
451009 Composite Sampler-Replacement Program	38,000		38,000		38,000		38,000		38,000		190,000				(190,000)		(190,000)
451010 Plant Optimization Program Support	35,000										35,000			(5,250)	(29,750)		(35,000)
451011 SCADA Technical Support	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	400,000			(96,000)	(304,000)		(400,000)



HALDIMAND COUNTY
2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Wastewater Treatment and Disposal																	
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030							
Wastewater Treatment General																	
451015 Wastewater Operating Capital	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	400,000				(400,000)	(400,000)	
451018 Asbestos Annual Inspection and Remediation [W]	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	40,000				(40,000)	(40,000)	
451024 Plant Capital Improvements							3,303,000	3,046,500	3,549,500	3,466,000	13,365,000	(3,241,200)		(668,300)	(9,455,500)	(13,365,000)	
Total Replacement/State of Good Repair	212,000	129,000	142,000	129,000	142,000	164,000	3,445,000	3,175,500	3,691,500	3,595,000	14,825,000	(3,241,200)		(834,350)	(10,749,450)	(14,825,000)	
New/Enhanced Service																	
451014 Effluent Water Quality & Impact Assessment	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	350,000			(350,000)		(350,000)	
Total New/Enhanced Service	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	350,000			(350,000)		(350,000)	
Total Wastewater Treatment General	247,000	164,000	177,000	164,000	177,000	199,000	3,480,000	3,210,500	3,726,500	3,630,000	15,175,000	(3,241,200)		(1,184,350)	(10,749,450)	(15,175,000)	
Total Wastewater Treatment and Disposal	3,927,000	4,325,900	7,676,500	1,242,500	37,642,100	999,000	3,715,000	3,617,500	3,747,500	3,630,000	70,523,000	(3,241,200)		(48,058,350)	(19,223,450)	(70,523,000)	



HALDIMAND COUNTY
2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
2021	2022	2023	2024	2025	2026	2027	2028	2029	2030								
Wastewater Technical Reviews and Studies																	
Caledonia Wastewater Technical Reviews and Studies																	
Replacement/State of Good Repair																	
452001	Cal - Master Servicing Plan Update [W][R][SS]					50,000					50,000			(50,000)			(50,000)
Total Replacement/State of Good Repair							50,000				50,000			(50,000)			(50,000)
Total Caledonia Wastewater Technical Reviews and Studies							50,000				50,000			(50,000)			(50,000)
Cayuga Wastewater Technical Reviews and Studies																	
Replacement/State of Good Repair																	
455014	Cay - Master Servicing Plan Update [W][R][SS]			25,000					25,000	50,000			(50,000)				(50,000)
455017	Cayuga Wastewater Modelling Update and Calibration			10,000						10,000			(10,000)				(10,000)
Total Replacement/State of Good Repair							10,000	25,000			25,000			(60,000)			(60,000)
Total Cayuga Wastewater Technical Reviews and Studies							10,000	25,000			25,000			(60,000)			(60,000)
Dunnville Wastewater Technical Reviews and Studies																	
Replacement/State of Good Repair																	
456014	Dun - Master Servicing Plan Update [W][R][SS]		30,000					30,000		60,000			(60,000)				(60,000)
456030	Dunnville Wastewater Modelling Update and Calibration			15,000						15,000			(15,000)				(15,000)
Total Replacement/State of Good Repair							15,000	30,000			30,000			(75,000)			(75,000)
Total Dunnville Wastewater Technical Reviews and Studies							15,000	30,000			30,000			(75,000)			(75,000)
Hagersville Wastewater Technical Reviews and Studies																	
Replacement/State of Good Repair																	
453020	Hag - Master Servicing Plan Update [W][R][SS]			25,000				25,000		50,000			(50,000)				(50,000)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
2021	2022	2023	2024	2025	2026	2027	2028	2029	2030									
Wastewater Technical Reviews and Studies																		
Hagersville Wastewater Technical Reviews and Studies																		
453035	Hagersville Wastewater Modelling Update and Calibration										15,000			(15,000)		(15,000)		
Total Replacement/State of Good Repair		15,000	25,000				25,000					65,000		(65,000)	(65,000)			
Total Hagersville Wastewater Technical Reviews and Studies		15,000	25,000				25,000					65,000		(65,000)	(65,000)			
Jarvis Wastewater Technical Reviews and Studies																		
Replacement/State of Good Repair																		
454001	Jar - Master Servicing Plan Update [W][R][SS]										15,000			(15,000)		(15,000)		
Total Replacement/State of Good Repair					15,000							15,000		(15,000)	(15,000)			
Total Jarvis Wastewater Technical Reviews and Studies					15,000							15,000		(15,000)	(15,000)			
LEIP Wastewater Technical Reviews and Studies																		
Replacement/State of Good Repair																		
459006	LEIP - Master Servicing Plan [W][R][S]										50,000			(100,000)		(100,000)		
Total Replacement/State of Good Repair		50,000				50,000						100,000		(100,000)	(100,000)			
Total LEIP Wastewater Technical Reviews and Studies		50,000				50,000						100,000		(100,000)	(100,000)			
Total Wastewater Technical Reviews and Studies		65,000	50,000	30,000	25,000	15,000	50,000	50,000	25,000	30,000	25,000	365,000		(365,000)	(365,000)			



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Administration		50,000			10,000					2,949,000	3,009,000				(3,009,000)		(3,009,000)
Total Water Administration		50,000			10,000					2,949,000	3,009,000				(3,009,000)		(3,009,000)
Dunnville Water Treatment Plant	155,000	125,000	210,000	142,000	25,000		90,000	1,840,500		115,000	2,702,500		(3,100)	(1,906,020)	(793,380)		(2,702,500)
Nanticoke Water Treatment Plant	635,000	1,413,000	240,000	190,000	190,000	230,000	238,000	200,000	175,000	175,000	3,686,000	(425,000)	(2,140,300)	(177,930)	(942,770)		(3,686,000)
Water Treatment General	208,100	113,100	138,100	113,100	2,915,000	148,100	2,832,000	113,100	3,012,500	113,100	9,706,200	(5,674,800)		(1,001,450)	(3,029,950)		(9,706,200)
Total Water Treatment	998,100	1,651,100	588,100	445,100	3,130,000	378,100	3,160,000	2,153,600	3,187,500	403,100	16,094,700	(6,099,800)	(2,143,400)	(3,085,400)	(4,766,100)		(16,094,700)
Caledonia Water Distribution	1,335,400	670,000	7,515,600		58,000	3,647,000	5,000	846,300	2,500	7,821,300	21,901,100	(5,634,300)		(14,253,030)	(2,013,770)		(21,901,100)
Cayuga Water Distribution	25,000	920,000			12,000					12,000	969,000				(969,000)		(969,000)
Dunnville Water Distribution			275,000				5,000				280,000				(280,000)		(280,000)
Hagersville Water Distribution		250,000	407,500					12,500			670,000	(250,000)			(420,000)		(670,000)
Jarvis Water Distribution				293,000		5,000					298,000				(298,000)		(298,000)
Water Distribution General	105,000	105,000	205,000	105,000	430,000	430,000	430,000	430,000	430,000	430,000	3,100,000	(1,950,000)			(1,150,000)		(3,100,000)
Total Water Distribution/Transmission	1,465,400	1,945,000	8,403,100	398,000	500,000	4,082,000	440,000	1,288,800	432,500	8,263,300	27,218,100	(7,834,300)		(14,253,030)	(5,130,770)		(27,218,100)
Caledonia Water Technical Reviews and Studies						50,000					50,000			(50,000)			(50,000)
Cayuga Water Technical Reviews and Studies		20,000		25,000						25,000	70,000			(70,000)			(70,000)
Dunnville Water Technical Reviews and Studies		105,000	30,000						30,000		165,000			(85,000)	(80,000)		(165,000)
Hagersville Water Technical Reviews and Studies	25,000	25,000						25,000			75,000			(75,000)			(75,000)
Jarvis Water Technical Reviews and Studies					20,000						20,000			(20,000)			(20,000)
LEIP Water Technical Reviews and Studies	175,000						50,000				225,000			(100,000)	(125,000)		(225,000)
Total Water Technical Reviews and Studies	200,000	150,000	30,000	25,000	20,000	50,000	50,000	25,000	30,000	25,000	605,000			(400,000)	(205,000)		(605,000)
Total Water	2,663,500	3,796,100	9,021,200	868,100	3,660,000	4,510,100	3,650,000	3,467,400	3,650,000	11,640,400	46,926,800	(13,934,100)	(2,143,400)	(17,738,430)	(13,110,870)		(46,926,800)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Administration	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Administration																	
Replacement/State of Good Repair																	
441004 WWW Financial Plan Update (O. Reg. 453/07)					10,000					10,000	20,000				(20,000)		(20,000)
441009 Caledonia Meter Replacement										2,009,000	2,009,000				(2,009,000)		(2,009,000)
441011 Dunnville Meter Replacement										930,000	930,000				(930,000)		(930,000)
Total Replacement/State of Good Repair					10,000					2,949,000	2,959,000				(2,959,000)		(2,959,000)
New/Enhanced Service																	
441007 WWW Rate Study		30,000									30,000				(30,000)		(30,000)
441008 Depot Software for Pay-at-the-Pump		20,000									20,000				(20,000)		(20,000)
Total New/Enhanced Service		50,000									50,000				(50,000)		(50,000)
Total Water Administration		50,000			10,000					2,949,000	3,009,000				(3,009,000)		(3,009,000)
Total Water Administration		50,000			10,000					2,949,000	3,009,000				(3,009,000)		(3,009,000)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
Dunnville Water Treatment Plant																	
Replacement/State of Good Repair																	
476002 Granular Activated Carbon change out	90,000			90,000			90,000			90,000	360,000				(360,000)		(360,000)
476026 WTP SCADA Computer & Network Replmt					25,000					25,000	50,000			(10,500)	(39,500)		(50,000)
476029 WTP PLC Replacements			210,000								210,000			(44,100)	(165,900)		(210,000)
476032 Remotes PLC Replacements				52,000							52,000			(10,920)	(41,080)		(52,000)
476038 Port Maitland Low Lift Facility Roof Repairs		5,000									5,000		(400)		(4,600)		(5,000)
476042 Port Maitland Intake Housing Reset	35,000										35,000		(2,700)		(32,300)		(35,000)
476048 Dunnville WTP Filter Control - Code Reprograming	30,000										30,000				(30,000)		(30,000)
Total Replacement/State of Good Repair	155,000	5,000	210,000	142,000	25,000		90,000			115,000	742,000		(3,100)	(65,520)	(673,380)		(742,000)
New/Enhanced Service																	
476033 WTP Reservoir Expansion								1,840,500			1,840,500			(1,840,500)			(1,840,500)
476036 Pre-treatment, Disinfection and Storage Improvements Study		120,000									120,000				(120,000)		(120,000)
Total New/Enhanced Service		120,000						1,840,500			1,960,500			(1,840,500)	(120,000)		(1,960,500)
Total Dunnville Water Treatment Plant	155,000	125,000	210,000	142,000	25,000		90,000	1,840,500		115,000	2,702,500		(3,100)	(1,906,020)	(793,380)		(2,702,500)
Nanticoke Water Treatment Plant																	
Replacement/State of Good Repair																	
479002 Nant - WTP Lagoon Clean Out	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	450,000				(450,000)		(450,000)
479003 Stelco IPS Operating Capital	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	400,000		(400,000)				(400,000)
479004 Imperial Oil IPS Operating Capital	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	400,000		(400,000)				(400,000)
479011 SCADA Computer & Network Replmt		25,000					25,000				50,000				(50,000)		(50,000)
479045 IPS Forebay Headwall Structural Repairs	270,000										270,000		(242,700)		(27,300)		(270,000)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Nanticoke Water Treatment Plant																	
479055 Stelco Transmission Main Leak Detection			65,000								65,000		(65,000)				(65,000)
479059 WTP PLC Replacements					15,000	55,000	38,000	25,000			133,000			(27,930)	(105,070)		(133,000)
479061 Lowlift Pump Replacement		375,000									375,000	(225,000)		(150,000)			(375,000)
479064 Filter valve actuator replacements	45,000	45,000									90,000				(90,000)		(90,000)
479065 Nanticoke WTP Facility Building Roof Repairs				15,000							15,000				(15,000)		(15,000)
479067 Lower Garage Access Ramp De-Icing System Replacement	55,000										55,000				(55,000)		(55,000)
479071 Nanticoke WTP Intake Annual Site Maintenance & Inspections	75,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	525,000		(470,400)		(54,600)		(525,000)
Total Replacement/State of Good Repair	570,000	620,000	240,000	190,000	190,000	230,000	238,000	200,000	175,000	175,000	2,828,000	(225,000)	(1,578,100)	(177,930)	(846,970)		(2,828,000)
New/Enhanced Service																	
479060 Pre-Treatment Upgrades		200,000									200,000	(200,000)					(200,000)
479063 WTP Backwash Holding Tank Winterization	65,000										65,000				(65,000)		(65,000)
479069 Nanticoke WTP Intake Cofferdam Installation		393,000									393,000		(372,600)		(20,400)		(393,000)
479070 Nanticoke WTP Intake Source Protection Measurers		100,000									100,000		(94,800)		(5,200)		(100,000)
479072 Nanticoke WTP Intake Site Fencing and Security		100,000									100,000		(94,800)		(5,200)		(100,000)
Total New/Enhanced Service	65,000	793,000									858,000	(200,000)	(562,200)		(95,800)		(858,000)
Total Nanticoke Water Treatment Plant	635,000	1,413,000	240,000	190,000	190,000	230,000	238,000	200,000	175,000	175,000	3,686,000	(425,000)	(2,140,300)	(177,930)	(942,770)		(3,686,000)
Water Treatment General																	
Replacement/State of Good Repair																	
471003 Facility Condition Assessment [WW]	25,000		25,000		25,000		25,000		25,000		125,000				(125,000)		(125,000)
471004 SCADA Master Plan	35,000					35,000					70,000			(14,700)	(55,300)		(70,000)
471006 Plant Optimization Program Support	35,000										35,000			(5,250)	(29,750)		(35,000)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Treatment General																	
471007 SCADA Maintenance	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	300,000			(63,000)	(237,000)		(300,000)
471009 Water Operating Capital	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	400,000				(400,000)		(400,000)
471010 Asbestos Annual Inspection and Remediation [WW]	3,100	3,100	3,100	3,100	3,100	3,100	3,100	3,100	3,100	3,100	31,000				(31,000)		(31,000)
471012 SCADA Technical Support	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	400,000			(84,000)	(316,000)		(400,000)
471017 Plant Capital Improvements					2,776,900		2,693,900		2,874,400		8,345,200	(5,674,800)		(834,500)	(1,835,900)		(8,345,200)
Total Replacement/State of Good Repair	208,100	113,100	138,100	113,100	2,915,000	148,100	2,832,000	113,100	3,012,500	113,100	9,706,200	(5,674,800)		(1,001,450)	(3,029,950)		(9,706,200)
Total Water Treatment General	208,100	113,100	138,100	113,100	2,915,000	148,100	2,832,000	113,100	3,012,500	113,100	9,706,200	(5,674,800)		(1,001,450)	(3,029,950)		(9,706,200)
Total Water Treatment	998,100	1,651,100	588,100	445,100	3,130,000	378,100	3,160,000	2,153,600	3,187,500	403,100	16,094,700	(6,099,800)	(2,143,400)	(3,085,400)	(4,766,100)		(16,094,700)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing	
Water Distribution/Transmission	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030								
Caledonia Water Distribution																		
Replacement/State of Good Repair																		
472005	Elevated Storage Tank Replacement	435,400		7,510,600								7,946,000	(4,134,300)		(3,361,700)	(450,000)	(7,946,000)	
472010	Forfar St. Storage Building Roof Replacement								2,500			2,500				(2,500)	(2,500)	
472011	Reservoir–SCADA Computer & Network Replmt					20,000				20,000		40,000				(40,000)	(40,000)	
472012	Park Lane - Inverness to end[CIW] [R]	200,000										200,000				(200,000)	(200,000)	
472013	Queen Ave - Caithness to end[CIW] [R]	200,000										200,000				(200,000)	(200,000)	
472014	Cameron St - Caithness to Ross[CIW] [R]	150,000										150,000				(150,000)	(150,000)	
472015	Blair St - Caithness to Park Lane[CIW] [R]	150,000										150,000				(150,000)	(150,000)	
472016	Chloramination Feasibility Study	35,000										35,000			(8,750)	(26,250)	(35,000)	
472017	Chemical Dosing Equipment Replacement	25,000										25,000				(25,000)	(25,000)	
472018	Booster Station PLC Replacements					38,000						38,000			(7,980)	(30,020)	(38,000)	
472019	Distribution Flow/Pressure Control Improvements		120,000									120,000				(120,000)	(120,000)	
472021	Caledonia Reservoir Roof Rehab						5,000					5,000				(5,000)	(5,000)	
472022	Caledonia Standpipe Building Roof Repairs			5,000								5,000				(5,000)	(5,000)	
472025	Booster Station Upgrades					1,500,000						1,500,000	(1,500,000)				(1,500,000)	
472027	East Edinburgh Square - Caithness to Sutherland [CIW] [R] [WW]	20,000	180,000									200,000				(200,000)	(200,000)	
472028	West Edinburgh Square - Caithness to Sutherland [CIW] [R] [WW]	20,000	175,000									195,000				(195,000)	(195,000)	
472030	Sutherland - Argyle to E Edinburgh Sq [CIW] [R] [WW]	20,000	195,000									215,000				(215,000)	(215,000)	
Total Replacement/State of Good Repair		1,255,400	670,000	7,515,600		58,000	1,500,000	5,000		2,500	20,000	11,026,500	(5,634,300)		(3,378,430)	(2,013,770)	(11,026,500)	
New/Enhanced Service																		
472020	North Water Storage Expansion	80,000				586,900		846,300		6,241,200		7,754,400			(7,754,400)		(7,754,400)	



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Distribution/Transmission	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debt/ure Financing	Total Financing
Caledonia Water Distribution																	
472023 Twinning of 450mm Water Main on Hwy 6						1,560,100					1,560,100			(1,560,100)			(1,560,100)
472024 Twinning of 350mm Water Main on Hald Rd 66										1,560,100	1,560,100			(1,560,100)			(1,560,100)
Total New/Enhanced Service	80,000					2,147,000		846,300		7,801,300	10,874,600			(10,874,600)			(10,874,600)
Total Caledonia Water Distribution	1,335,400	670,000	7,515,600		58,000	3,647,000	5,000	846,300	2,500	7,821,300	21,901,100	(5,634,300)		(14,253,030)	(2,013,770)		(21,901,100)
Cayuga Water Distribution																	
Replacement/State of Good Repair																	
475011 Reservoir–SCADA Computer & Network Replmt					12,000					12,000	24,000				(24,000)		(24,000)
475012 Online Analyzer Replacements	25,000										25,000				(25,000)		(25,000)
475013 Ouse St N - Talbot to Cayuga St N [CIW] [R]		330,000									330,000			(330,000)			(330,000)
475015 Kerr St E - Winniet to 100 m west of Winniet[CIW] [R]		100,000									100,000			(100,000)			(100,000)
475016 Norton St E - Winniet to 60 m west of Winniet[CIW] [R]		60,000									60,000			(60,000)			(60,000)
475018 Chemical Dosing Equipment		10,000									10,000			(10,000)			(10,000)
475019 Cay - Norton St W - Ottawa St west to end [W]		100,000									100,000			(100,000)			(100,000)
475020 Cay - Kerr St W - Ottawa St to Munsee [W]		120,000									120,000			(120,000)			(120,000)
475021 Cay - Mohawk St E - Winniet east to end [W]		200,000									200,000			(200,000)			(200,000)
Total Replacement/State of Good Repair	25,000	920,000			12,000					12,000	969,000			(969,000)			(969,000)
Total Cayuga Water Distribution	25,000	920,000			12,000					12,000	969,000			(969,000)			(969,000)
Dunnville Water Distribution																	
Replacement/State of Good Repair																	
476030 Alley way - Broad to Central Lane [CIW] [R]			200,000								200,000				(200,000)		(200,000)



HALDIMAND COUNTY

2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Distribution/Transmission	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030								
Dunnville Water Distribution																		
476031	Main St E - 710 Main E to 50 m south [CIW] [R]			70,000								70,000			(70,000)	(70,000)		
476037	Dunnville Bulk Water Depot Roof Repairs						5,000					5,000			(5,000)	(5,000)		
476039	Dunnville Standpipe Building Roof Repairs			5,000								5,000			(5,000)	(5,000)		
Total Replacement/State of Good Repair				275,000			5,000					280,000			(280,000)	(280,000)		
Total Dunnville Water Distribution				275,000			5,000					280,000			(280,000)	(280,000)		
Hagersville Water Distribution																		
Replacement/State of Good Repair																		
473001	Booster Stn Roof Replacement							5,000				5,000			(5,000)	(5,000)		
473003	Hagersville Tuscarora St Operations Building Roof							2,500				2,500			(2,500)	(2,500)		
473005	Standpipe Coating Maintenance		250,000									250,000	(250,000)			(250,000)		
473006	Victoria St - Tuscarora to Main St N [CIW] [R]			300,000								300,000			(300,000)	(300,000)		
473007	Foundry St - Tuscarora to end[CIW] [R]			100,000								100,000			(100,000)	(100,000)		
473008	Hagersville Rechlorination Building Roof Repairs			7,500								7,500			(7,500)	(7,500)		
473010	Hagersville Standpipe Building Roof Repairs							5,000				5,000			(5,000)	(5,000)		
Total Replacement/State of Good Repair				250,000	407,500			12,500				670,000	(250,000)		(420,000)	(670,000)		
Total Hagersville Water Distribution				250,000	407,500			12,500				670,000	(250,000)		(420,000)	(670,000)		
Jarvis Water Distribution																		
Replacement/State of Good Repair																		
474002	Jarvis Bulk Water Depot Roof Repairs						5,000					5,000			(5,000)	(5,000)		
474003	Walpole St- Monson to Talbot [CIW] [R] [SS]				293,000							293,000			(293,000)	(293,000)		



HALDIMAND COUNTY
2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Distribution/Transmission	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030							
Jarvis Water Distribution																	
Total Replacement/State of Good Repair				293,000		5,000					298,000				(298,000)	(298,000)	
Total Jarvis Water Distribution				293,000		5,000					298,000				(298,000)	(298,000)	
Water Distribution General																	
Replacement/State of Good Repair																	
471005 Distribution System - Annual Repair & Replac't	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	850,000				(850,000)	(850,000)	
471008 Distribution Leak Detection Program	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	200,000				(200,000)	(200,000)	
471011 Replacement of Cast Iron Watermains					325,000	325,000	325,000	325,000	325,000	325,000	1,950,000	(1,950,000)				(1,950,000)	
471019 Cast Iron Watermain Engineering			100,000								100,000				(100,000)	(100,000)	
Total Replacement/State of Good Repair	105,000	105,000	205,000	105,000	430,000	430,000	430,000	430,000	430,000	430,000	3,100,000	(1,950,000)			(1,150,000)	(3,100,000)	
Total Water Distribution General	105,000	105,000	205,000	105,000	430,000	430,000	430,000	430,000	430,000	430,000	3,100,000	(1,950,000)			(1,150,000)	(3,100,000)	
Total Water Distribution/Transmission	1,465,400	1,945,000	8,403,100	398,000	500,000	4,082,000	440,000	1,288,800	432,500	8,263,300	27,218,100	(7,834,300)		(14,253,030)	(5,130,770)	(27,218,100)	



HALDIMAND COUNTY
2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Technical Reviews and Studies	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030							
Caledonia Water Technical Reviews and Studies																	
Replacement/State of Good Repair																	
472002 Cal - Master Servicing Plan Update [WW][R][SS]						50,000					50,000			(50,000)		(50,000)	
Total Replacement/State of Good Repair						50,000					50,000			(50,000)		(50,000)	
Total Caledonia Water Technical Reviews and Studies						50,000					50,000			(50,000)		(50,000)	
Cayuga Water Technical Reviews and Studies																	
Replacement/State of Good Repair																	
475017 Cay - Master Servicing Plan Update [WW][R][SS]				25,000						25,000	50,000			(50,000)		(50,000)	
475028 Cayuga Water Modelling Update and Calibration		20,000									20,000			(20,000)		(20,000)	
Total Replacement/State of Good Repair		20,000		25,000						25,000	70,000			(70,000)		(70,000)	
Total Cayuga Water Technical Reviews and Studies		20,000		25,000						25,000	70,000			(70,000)		(70,000)	
Dunnville Water Technical Reviews and Studies																	
Replacement/State of Good Repair																	
476028 Dun - Master Servicing Plan Update [WW][R][SS]			30,000						30,000		60,000			(60,000)		(60,000)	
476040 Raw Water Transmission Main Condition Assessment		80,000									80,000			(80,000)		(80,000)	
476047 Dunnville Water Modelling Update and Calibration		25,000									25,000			(25,000)		(25,000)	
Total Replacement/State of Good Repair		105,000	30,000						30,000		165,000			(85,000)	(80,000)	(165,000)	
Total Dunnville Water Technical Reviews and Studies		105,000	30,000						30,000		165,000			(85,000)	(80,000)	(165,000)	
Hagersville Water Technical Reviews and Studies																	
Replacement/State of Good Repair																	



HALDIMAND COUNTY
2021 to 2030 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debt/Debt Financing	Total Financing
Water Technical Reviews and Studies	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030								
Hagersville Water Technical Reviews and Studies																		
473004 Hag - Master Servicing Plan Update [WW][R][SS]		25,000						25,000				50,000			(50,000)	(50,000)		
473014 Hagersville Water Modelling Update and Calibration	25,000											25,000			(25,000)	(25,000)		
Total Replacement/State of Good Repair	25,000	25,000						25,000				75,000			(75,000)	(75,000)		
Total Hagersville Water Technical Reviews and Studies	25,000	25,000						25,000				75,000			(75,000)	(75,000)		
Jarvis Water Technical Reviews and Studies																		
Replacement/State of Good Repair																		
474001 Jar - Master Servicing Plan Update [WW][R][SS]					20,000							20,000			(20,000)	(20,000)		
Total Replacement/State of Good Repair					20,000							20,000			(20,000)	(20,000)		
Total Jarvis Water Technical Reviews and Studies					20,000							20,000			(20,000)	(20,000)		
LEIP Water Technical Reviews and Studies																		
Replacement/State of Good Repair																		
479066 LEIP - Master Servicing Plan [WW][R][S]	50,000						50,000					100,000			(100,000)	(100,000)		
Total Replacement/State of Good Repair	50,000						50,000					100,000			(100,000)	(100,000)		
New/Enhanced Service																		
479068 Nanticoke WTP Class EA Update	125,000														(125,000)	(125,000)		
Total New/Enhanced Service	125,000														(125,000)	(125,000)		
Total LEIP Water Technical Reviews and Studies	175,000						50,000					225,000			(100,000)	(125,000)		
Total Water Technical Reviews and Studies	200,000	150,000	30,000	25,000	20,000	50,000	50,000	25,000	30,000	25,000		605,000			(400,000)	(205,000)		



Haldimand County 2021 Capital Financial Principles

<u>Principles</u>	<u>Sub-category</u>	<u>Principle</u>
External Sources	External Financing - Donation/Contributions	Municipal Drains based on legislative assessment. Partnership with community groups based on Community Partnership Framework for new service/enhanced infrastructure projects, or acceleration of replacement of infrastructure.
	External Financing - Donation towards Decorative Streetlights	Upgrades from standard to decorative streetlights will be funded by BIA or community group
	External Financing - Municipal Recoveries	Based on agreed cost sharing principles
Grants	Allocation of Federal Gas Tax Funds	Allocate 50/50 between water/wastewater and tax supported capital projects. Apply to incremental projects, new/enhanced services. Gas Tax will be used in order to avoid debt financing. Need to ensure the project meets eligibility requirements for Gas Tax funding.
	Ontario Community Infrastructure Fund - formula component	As the intention of this program is to assist municipalities in funding critical projects identified within their Asset Management Plans in the eligible "core infrastructure" areas, and as the County's current Asset Management Plan (AMP) identifies funding needs within the core infrastructure areas of Roads, Bridges, and Water, with the largest infrastructure deficit shown within the roads program, this funding will be utilized within the roads program. Future year's allocations will be assigned to eligible capital projects through the annual capital budget review process.
	Clean Water and Wastewater Fund	To be utilized for acceleration of the rehabilitation and modernization of drinking water, wastewater and stormwater infrastructure; to foster economic growth and support a cleaner and healthier environment for communities; to improve the reliability of drinking water, wastewater and stormwater systems and meet federal or provincial regulations, standards or guidelines.
	Other Grants	As available based on eligibility of funds
County Reserves/Reserve Funds	Capital Replacement Reserves/Reserve Funds	Capital Replacement Reserves/Reserve Funds will have a positive balance at the end of the 10 year forecast. Interim financing during the forecast will not exceed 25% of annual contributions in any given year. All projects requiring interim financing will have interest charges applied to the capital project.
	Land Sales Reserve	To be utilized for to provide a source of funds for land purchases, building construction or major capital improvements to County-owned buildings.
	Parkland Dedication Reserve fund	To be utilized for to provide a source of funds for acquisition and development of public parks, recreation facilities and trails.
	Development Charge Reserve Funds	Development Charges reserve funds will remain positive in aggregate over the 10 year forecast.
Debt Financing	County Debt Portion	Annual debt repayments will not exceed 10% of own source revenues. Debt will only be applied to projects under the following principles: Gross Project Costs < \$1 million: Not eligible for debt Gross Project Costs between \$1 Million and \$10 Million : Debt financed for a period of 10 years. Gross Project Costs > \$10 million and asset life >20 years: Debt financed for a period of 20 years. Debt to be issued at time of project initiation (i.e. award of tender) Engineering components less than 25% of project cost, if initiated more than 2 years before construction, will not be eligible for debt financing.
	DC Debt (growth related debt)	DC debt will be applied under the following circumstances: Projects where issuing debt for County share of project, and development charges funding is applicable, DC debt will be considered if insufficient development charges receipts are available. Debt to be issued at time of project initiation (i.e. award of tender) If the DCRF results in a negative balance, a review of significant DC funded projects will occur to review for potential DC debt issuance

Application of Funding Sources for Specific Capital Projects	
<u>Nature of Project</u>	<u>Hierarchy of Funding Source</u>
Replacements/SOGR	External Revenues Applicable Grants Development Charges (if applicable) Specific Capital Replacement Reserve/Reserve Funds Debt Financing
New Initiatives/Enhancements	External Revenues Applicable Grants Development Charges (if applicable) Specific Capital Replacement Reserve/Reserve Funds Debt Financing



TAX SUPPORTED													
<i>Project</i>	<i>ByLaw #</i>	<i>Payee</i>	<i>Pmt Method</i>	<i>date of issue</i>	<i>Original Principal</i>	<i>Current Interest rate</i>	<i>Annual Principal Payments (average)</i>	<i>Outstanding Principal (as at December 31, 2020)</i>	<i>2021 Annual Payments</i>	<i>offsetting funding</i>	<i>Net County Responsibility</i>	<i>Outstanding Principal (as at December 31, 2021)</i>	<i>Maturity</i>
Central Administration Facility	2067/19	IO	PAD	July 2, 2019	\$19,450,000	2.71%	\$486,250	\$18,477,500	\$1,466,706	0	\$1,466,706	\$18,477,500	2039
Lowbanks - Firehall and Community Centre	1392/13	IO	PAD	October 1, 2013	\$898,500	3.36%	\$89,850	\$269,550	\$98,150	0	\$98,150	\$179,700	2023
Cayuga Fire Station	1711/16	IO	PAD	October 3, 2016	\$1,502,800	2.07%	\$150,280	\$901,680	\$168,118	(115,159)	\$52,959	\$751,400	2026
Hagersville Fire Station	1711/16	IO	PAD	October 3, 2016	\$1,747,700	2.07%	\$174,770	\$1,048,620	\$195,515	(26,110)	\$169,405	\$873,850	2026
South Haldimand Fire Station	1711/16	IO	PAD	October 3, 2016	\$1,236,300	2.07%	\$123,630	\$741,780	\$138,305	(45,218)	\$93,087	\$618,150	2026
Cayuga EMS Station	1711/16	IO	PAD	October 3, 2016	\$512,900	2.07%	\$51,290	\$307,740	\$57,378	(8,558)	\$48,820	\$256,450	2026
Hagersville EMS Station	1711/16	IO	PAD	October 3, 2016	\$710,400	2.07%	\$71,040	\$426,240	\$79,472	(10,661)	\$68,811	\$355,200	2026
Grandview	824/07	IO	PAD	July 16, 2007	\$17,000,000	5.27%	\$850,000	\$5,950,000	\$1,152,458	(483,552)	\$668,906	\$5,100,000	2027
Grandview - New Debt	1393/13	IO	PAD	October 1, 2013	\$1,686,000	3.82%	\$112,453	\$899,627	\$145,742	0	\$145,742	\$787,174	2028
Conversion of CNR Bridge	2066-19	IO	PAD	July 2, 2019	\$1,160,000	2.40%	\$116,000	\$1,044,000	\$140,366	0	\$140,366	\$928,000	2029
HCCC - Balloon & New Debt	1392/13	IO	PAD	October 1, 2013	\$3,658,000	3.36%	\$365,800	\$1,097,400	\$399,592	(163,833)	\$235,759	\$731,600	2023
Cayuga Arena	1394/13	IO	PAD	October 1, 2013	\$6,620,400	4.11%	\$331,020	\$4,303,260	\$504,473	(267,705)	\$236,768	\$3,972,240	2033
Dunnville Arena	1394/13	IO	PAD	October 1, 2013	\$7,656,900	4.11%	\$382,845	\$4,976,985	\$583,455	(175,656)	\$407,799	\$4,594,140	2033
Cayuga Library	2066/19	IO	PAD	July 2, 2019	\$2,299,800	2.40%	\$229,980	\$2,069,820	\$278,287	(81,775)	\$196,512	\$1,839,840	2029
Dunnville Library	1829/17	CDS	PAD	July 5, 2017	\$864,700	1.55%	\$86,470	\$619,566	\$96,277	(96,277)	\$0	\$535,705	2027
Caledonia Lions Hall	1711/16	IO	PAD	October 3, 2016	\$1,653,000	2.07%	\$165,300	\$991,800	\$184,921	0	\$184,921	\$826,500	2026
Total Tax Supported								\$44,125,568	\$5,689,215	-\$1,474,504	\$4,214,711	\$40,827,448	

RATE SUPPORTED WATER AND WASTEWATER													
<i>Project</i>	<i>ByLaw #</i>	<i>Payee</i>	<i>Pmt Method</i>	<i>date of issue</i>	<i>Original Principal</i>	<i>Current Interest rate</i>	<i>Annual Principal Payments (average)</i>	<i>Outstanding Principal (as at December 31, 2020)</i>	<i>2021 Annual Payments</i>	<i>offsetting funding</i>	<i>Net County Responsibility</i>	<i>Outstanding Principal (as at December 31, 2021)</i>	<i>Maturity</i>
Water projects													
Caithness Street - Argyle to McClung, Caledonia	1392/13	IO	PAD	October 1, 2013	\$789,900	3.36%	\$78,990	\$236,970	\$86,287	0	\$86,287	\$157,980	2023
Jarvis Watermain Replacement	1829/17	CDS	PAD	July 5, 2017	\$2,250,000	1.55%	\$225,000	\$1,612,147	\$250,518	(62,629)	\$187,888	\$1,393,934	2027
Nanticoke Electrical Servicing Upgrades	1829/17	CDS	PAD	July 5, 2017	\$100,000	1.55%	\$10,000	\$71,651	\$11,134	(11,134)	\$0	\$61,953	2027
Nanticoke Filter Building Expansion	1829/17	CDS	PAD	July 5, 2017	\$1,704,400	1.55%	\$170,440	\$1,221,219	\$189,770	(47,442)	\$142,327	\$1,055,921	2027
Nanticoke High Rate Sedimentation Capacity Expansion	1829/17	CDS	PAD	July 5, 2017	\$1,337,400	1.55%	\$133,740	\$958,260	\$148,908	(37,221)	\$111,686	\$828,555	2027
Nanticoke Water System Filter Replacement	1829/17	CDS	PAD	July 5, 2017	\$2,340,900	1.55%	\$234,090	\$1,677,278	\$260,639	(260,639)	\$0	\$1,450,249	2027
Nanticoke Water Treatment Process	1829/17	CDS	PAD	July 5, 2017	\$2,983,200	1.55%	\$298,320	\$2,137,492	\$332,153	(83,038)	\$249,115	\$1,848,171	2027
Wastewater Projects													
Caithness Street - Argyle to McClung	1392/13	IO	PAD	October 1, 2013	\$502,800	3.36%	\$50,280	\$150,840	\$54,925	0	\$54,925	\$100,560	2023
Caledonia Water Pollution Control Upgrade Balloon	1392/13	IO	PAD	October 1, 2013	\$3,024,000	3.36%	\$302,400	\$907,200	\$330,335	(214,718)	\$115,617	\$604,800	2023
Caledonia WWTP Upgrades	1829/17	CDS	PAD	July 5, 2017	\$628,700	1.55%	\$62,870	\$450,470	\$70,000	(70,000)	\$0	\$389,496	2027
Dunnville WWTP	2066/19	IO	PAD	July 2, 2019	\$9,178,950	2.40%	\$917,895	\$8,261,055	\$1,110,698	(55,535)	\$1,055,163	\$7,343,160	2029
Jarvis Lagoon Upgrades	1829/17	CDS	PAD	July 5, 2017	\$122,700	1.55%	\$12,270	\$87,916	\$13,662	(13,662)	\$0	\$76,016	2027
Townsend Lagoon	2066/19	IO	PAD	July 2, 2019	\$562,500	2.40%	\$56,250	\$506,250	\$68,065	(68,065)	\$0	\$450,000	2029
Total Rate Supported Water and Wastewater								\$18,278,749	\$2,927,093	-\$924,084	\$2,003,009	\$15,760,795	

Total Debt:

\$62,404,317	\$8,616,307	-\$2,398,588	\$6,217,719	\$56,588,244
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Capital Replacement Reserve Funds - Water and Wastewater

FORECAST OF CAPITAL REPLACEMENT RESERVE FUND - WATER
FOR THE YEARS 2021 TO 2030

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	9,397,068	1,434,752	1,207,302	568,962	1,211,822	2,273,912	3,041,142	4,466,072	5,195,062	7,354,982	8,887,252
Source of Funds:											
Budgeted Annual Contribution	1,132,620	1,417,000	1,545,660	1,673,860	1,754,770	1,755,350	1,754,630	1,755,210	2,445,770	2,445,770	2,445,770
Contribution: Leachate											
Contribution from Rate Stabilization Reserve Interest Earned				651,000							
Total Source of Funds	1,132,620	1,417,000	1,545,660	2,324,860	1,754,770	1,755,350	1,754,630	1,755,210	2,445,770	2,445,770	2,445,770
Use of Funds:											
Commitment for Active Projects	9,094,935										
New Initiative/Enhanced Service Replacement/State of Good Repair		190,000	185,800								
		1,454,450	1,998,200	1,682,000	692,680	988,120	329,700	1,026,220	285,850	913,500	1,869,850
Total Use of Funds	9,094,935	1,644,450	2,184,000	1,682,000	692,680	988,120	329,700	1,026,220	285,850	913,500	1,869,850
Closing Balance December 31st	1,434,752	1,207,302	568,962	1,211,822	2,273,912	3,041,142	4,466,072	5,195,062	7,354,982	8,887,252	9,463,172

FORECAST OF CAPITAL REPLACEMENT RESERVE FUND - SEWER
FOR THE YEARS 2021 TO 2030

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	14,080,451	10,436,382	12,061,012	9,630,772	9,060,992	9,852,112	11,243,992	12,355,212	11,572,902	10,928,292	10,198,842
Source of Funds:											
Budgeted Annual Contribution	1,385,000	1,896,640	1,923,570	1,950,180	2,131,630	2,153,340	2,175,030	2,196,450	2,213,100	2,234,110	3,121,850
Contribution from Rate Stabilization Reserve Contribution: Leachate		2,123,000									
Leachate Norfolk Capital component											
Leachate Haldimand Capital component	27,140	27,140	27,140	27,140	27,140	27,140	27,140	27,140	27,140	27,140	27,140
Interest Earned											
Total Source of Funds	1,412,140	4,046,780	1,950,710	1,977,320	2,158,770	2,180,480	2,202,170	2,223,590	2,240,240	2,261,250	3,148,990
Use of Funds:											
Commitment for Active Projects	5,056,209										
New Initiative/Enhanced Service Replacement/State of Good Repair		726,500	385,000	1,237,500	58,200						
		1,695,650	3,995,950	1,309,600	1,309,450	788,600	1,090,950	3,005,900	2,884,850	2,990,700	3,815,050
Total Use of Funds	5,056,209	2,422,150	4,380,950	2,547,100	1,367,650	788,600	1,090,950	3,005,900	2,884,850	2,990,700	3,815,050
Closing Balance December 31st	10,436,382	12,061,012	9,630,772	9,060,992	9,852,112	11,243,992	12,355,212	11,572,902	10,928,292	10,198,842	9,532,782



Federal Gas Tax Reserve Fund

**FORECAST OF FEDERAL GAS TAX REVENUE RESERVE FUND
FOR THE YEARS 2021 TO 2030**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	5,385,989	1,292,529	2,405,818	3,298,538	61,847	2,282,956	2,247,665	2,271,374	1,087,483	1,499,592	101,301
Source of Funds:											
Budgeted Contribution	2,767,150	2,892,929	2,892,929	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709
One Time Additional Contribution											
Interest Earned											
Total Source of Funds	2,767,150	2,892,929	2,892,929	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709
Use of Funds:											
Commitment for Active Projects (Tax)	1,815,932										
Commitment for Active Projects (Water/Wastewater)	2,692,750										
Contribution to State of Good Repair Projects (Tax Supported)		1,000,000	500,000		100,000	500,000	1,000,000	1,370,000	1,500,000	1,400,000	1,400,000
Contribution to New Initiatives/Enhanced Service Projects (Tax Supported)		507,800	449,550	2,372,300	527,600	340,700					
Contribution to New Initiatives/Enhanced Service Projects (Water)			200,000								
Contribution to New Initiatives/Enhanced Service Projects (Wastewater)		20,640	205,660								
Contribution to State of Good Repair Projects (Water)		251,200	475,000	3,883,100		2,213,300	1,825,000	2,156,900	325,000	2,279,600	325,000
Contribution to State of Good Repair Projects (Wastewater)			170,000		170,000		170,000	675,700	781,600	737,400	1,386,500
Gravel Road Conversion One-Time Funding	2,351,928										
Total Use of Funds	6,860,610	1,779,640	2,000,210	6,255,400	797,600	3,054,000	2,995,000	4,202,600	2,606,600	4,417,000	3,111,500
Closing Balance December 31st	1,292,529	2,405,818	3,298,538	61,847	2,282,956	2,247,665	2,271,374	1,087,483	1,499,592	101,301	8,510

NOTE: Tax Supported Capital project funding is based on preliminary figures and will be finalized through the Tax Supported Capital Budget.



Development Charges Reserve Fund - Water

**DEVELOPMENT CHARGES RESERVE FUND - WATER
FOR THE YEARS 2021 TO 2030**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	362,800	(210,971)	(143,243)	(174,028)	(602,920)	(852,998)	(1,364,354)	(1,686,533)	(2,348,813)	(2,339,573)	(2,745,067)
Source of Funds:											
Actual Receipts to December 31											
Receipts expected per DC study (prorated if part year)	445,540	695,460	709,370	723,560	738,030	752,790	793,680	809,560	825,750	842,260	859,110
Interest Earned		(4,182)	(3,545)	(8,681)	(16,268)	(24,776)	(34,090)	(45,090)	(52,579)	(56,814)	(66,835)
Total Source of Funds	445,540	691,278	705,825	714,879	721,762	728,014	759,590	764,470	773,171	785,446	792,275
Use of Funds:											
DC debt repayment (note 1)	502,320	502,100	501,910	930,870	921,220	910,590	901,170	890,800	379,200	369,110	359,160
Forecasted DC debt repayment (note 2)								193,870	189,480	489,730	478,150
Proposed Projects-Capital Forecast (Tax)	26,920			13,500					13,500		
Proposed Projects-Capital Forecast (WWW) (note 3)	490,071	121,450	234,700	199,400	50,620	328,780	180,600	342,080	181,750	332,100	446,250
Total Use of Funds	1,019,311	623,550	736,610	1,143,770	971,840	1,239,370	1,081,770	1,426,750	763,930	1,190,940	1,283,560
Closing Balance December 31st	(210,971)	(143,243)	(174,028)	(602,920)	(852,998)	(1,364,354)	(1,686,533)	(2,348,813)	(2,339,573)	(2,745,067)	(3,236,352)

Note 1: Debt repayment includes Nanticoke Water Treatment Plant (2018-2027), Jarvis Watermain Replacement (2018-2027), and Caledonia Elevated Tank (2023-2032).

Note 2: Forecasted debt repayment includes estimates for the following projects budgeting for completion between 2021-2030: Caledonia North Water Storage Upgrades (2029-2038), Dunnville WTP Reservoir Expansion (2029-2038) and Twinning of 450mm Water Main on Hwy 6 (2027-2036).

Note 3: Proposed project expenditures are based on the 2021 10 year capital forecast (2021-2030). Additional projects have been added to the 10 year forecast that were not included in the Haldimand County Development Charge Background Study, March 5, 2019.

Note 4: Though the Development Charges Reserve Fund - Wastewater is currently projecting to be in a negative balance at the end of the 10 year forecasted period, all DC related expenditures are forecasted over a 20 year period, at which time the reserve fund will come to a zero balance. A comprehensive Development Charges study is completed every five years and will be completed again in 2023.



Haldimand County Development Charges Reserve Fund - Wastewater

**DEVELOPMENT CHARGES RESERVE FUND - WASTEWATER
FOR THE YEARS 2021 TO 2030**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	(2,423,283)	(3,223,243)	(2,134,528)	(2,313,337)	(2,439,767)	(2,997,754)	(5,402,355)	(8,802,466)	(12,518,774)	(16,105,696)	(19,504,768)
Source of Funds:											
Actual Receipts to December 31											
Receipts expected per DC study (prorated if part year)	1,219,620	2,091,800	2,133,640	2,176,310	2,219,840	2,264,230	2,387,160	2,434,910	2,483,610	2,533,280	2,583,940
Interest Earned		(63,455)	(49,699)	(53,110)	(60,757)	(93,861)	(158,721)	(238,238)	(319,842)	(397,902)	(471,690)
Total Source of Funds	1,219,620	2,028,345	2,083,941	2,123,200	2,159,083	2,170,369	2,228,439	2,196,672	2,163,768	2,135,378	2,112,250
Use of Funds:											
DC debt repayment (note 1)	593,220	422,480	1,601,800	1,621,730	1,390,370	1,358,780	1,328,310	1,297,410	1,178,610	1,146,960	1,014,100
Forecasted DC debt repayment (note 2)					1,139,850	1,112,690	4,045,890	4,307,170	4,215,030	4,115,590	4,019,800
Proposed Projects-Capital Forecast (Tax)	26,920			13,500					13,500		
Proposed Projects-Capital Forecast (WWW) (note 3)	1,399,440	517,150	660,950	614,400	186,850	2,103,500	254,350	308,400	343,550	271,900	282,950
Total Use of Funds	2,019,580	939,630	2,262,750	2,249,630	2,717,070	4,574,970	5,628,550	5,912,980	5,750,690	5,534,450	5,316,850
Closing Balance December 31st	(3,223,243)	(2,134,528)	(2,313,337)	(2,439,767)	(2,997,754)	(5,402,355)	(8,802,466)	(12,518,774)	(16,105,696)	(19,504,768)	(22,709,367)

Note 1: Debt repayment schedule includes Caledonia WPCP Refinancing (2014-2023), Hagersville WPCP (2011-2020), Caledonia WWTP (2014-2023), Jarvis Lagoon Upgrades (2018-2027), Townsend Lagoon Upgrades (2020-2029), Dunnville WWTP (2020-2029) as well as annual repayments for the following open/active projects in 2020; Caledonia Nairne St. Forcemain (2022-2031), Caledonia WWTP Aeration Head Diffusers (2022-2031), Cayuga Ouse St. Forcemain Twinning (2023-2032), Caledonia WWTP Wet Well Expansion (2022-2031), Jarvis Additional Wastewater Treatment Capacity (2022-2031), and Cayuga Ouse St Pumping Station (2023-2032).

Note 2: Forecasted debt repayment includes estimates for the following projects budgeted for completion between 2021 - 2030; Hagersville Grit Removal System (2024-2033), McClung Pump Station Upgrades (2027-2036), McClung Pump Station Forcemain Extension (2027-2036), Nairne Pump Station Forcemain Extension (2027-2036), and New Caledonia Wastewater Treatment Plant Phase 1 & 2 (2024-2033 and 2026-2045).

Note 3: Proposed project expenditures are based on the 2021 10 year capital forecast (2021-2039). Additional projects have been added to the 10 year forecast that were not included in the Haldimand County Development Charge Background Study, March 5, 2019.

Note 4: Though the Development Charges Reserve Fund - Wastewater is currently projecting to be in a negative balance at the end of the 10 year forecasted period, all DC related expenditures are forecasted over a 20 year period, at which time the reserve fund will come to a zero balance. A comprehensive Development Charges study is completed every five years and will be completed again in 2023.