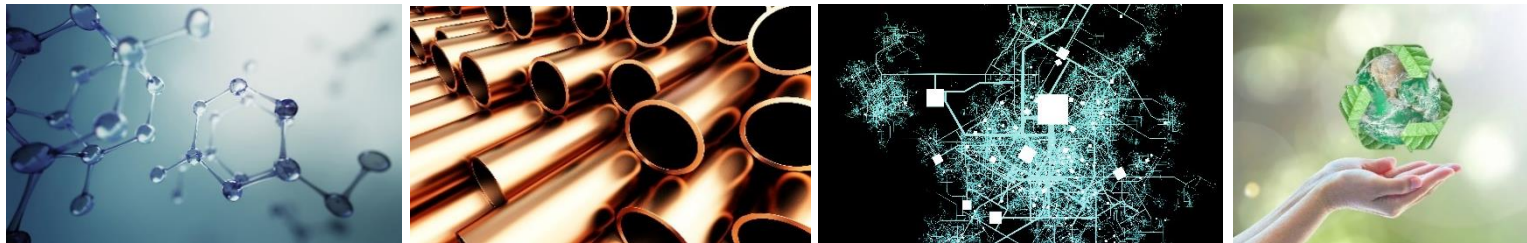


# Presentation of the 2021 Water and Wastewater Budget

Monday, December 7, 2020



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Infrastructure & Municipal Works

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General Manager,  
Financial Services/Treasurer

# Presentation Overview

- Mission - Strategic Plan - Goals and Objectives
- Compliance
- Infrastructure/Asset Management
- Water and Wastewater Systems and Capital Projects
- Water and Wastewater Reserves and Long-Term Borrowing
- Operating and Capital Financial Summary
- Sustainable Financial Planning
- Municipal Comparators
- Budget Summary

# Water and Wastewater Services

## Mission Statement

Water and wastewater services are provided through the supply of quality drinking water and treatment of wastewater as a public service to protect public health, safety and property in an environmentally sustainable and a fiscally responsible manner.

**STRATEGIC PRIORITIES  
2019-2022**

**WE WILL EARN OUR REPUTATION BY:**

*Developing waterfront through ownership, partnerships for business, recreational opportunities.*

1. Pop-up businesses
2. Sports and recreation opportunities
3. Development of Pointe Maligne Park with budgeted funds
4. Sustained pressure to own strategic parts of our waterfront
5. Encourage private sector development (residential, retail, commercial)

*Attracting, enhancing workforce that meets demands of local employers.*

1. Convene a workforce group
2. Explore short-term affordable housing as way to facilitate relocation of workers
3. Lobby government officials to reverse trends of immigrants to large centres
4. Facilitate liaison activities between job creators, educators, and senior government to define needed skills, improve existing programs

*Growing quality of housing stock, including affordable housing.*

1. Create a taskforce
2. Create rental licensing registry to enable a database and adherence to applicable by-laws and standards
3. Look at options to increase enforcement of property standards, building & fire codes

*Economic development and pursuing diverse population growth of 50,000.*

1. Better branding for areas of the City
2. Attract remote workers via incentives
3. Focus on reducing number of vacant commercial spaces
4. Continue to invest in infrastructure
5. Encourage infill project (e.g. Brookdale)

*Being leaders in sustainability and climate change impact.*

1. Create Environmental & Climate Change Committee
2. Composting
3. Water meters
4. Education on recycling & waste reduction
5. Plastic bag ban
6. Identify what the City could take the lead on

**MISSION**

To provide services that enable a financially and environmentally sustainable community which will care and provide for the needs and values of its residents.

**VISION**

The City of Cornwall is recognized as a welcoming and healthy community with a strong municipal government providing effective services and infrastructure.



## Alignment to Strategic Plan

The Water and Wastewater Budget aligns with the City's Strategic Plan in providing services that enable a financially and environmentally sustainable community which will care and provide for the needs and values of its residents.

# 2021 Water and Wastewater

## Goals and Objectives of Financial Sustainability Plan

### Realizing Operational Excellence

Provide clean and safe drinking water to over 47,000 residents

Keep \$679M of capital infrastructure in good condition

Comply with complex provincial environmental regulations

Minimize system losses

### EFFECTIVE DELIVERY OF WATER AND WASTEWATER SERVICES

### Moving Towards Financial Sustainability

Set rates for cost recovery

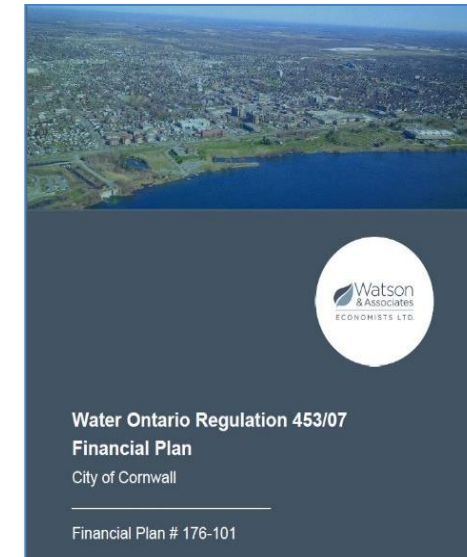
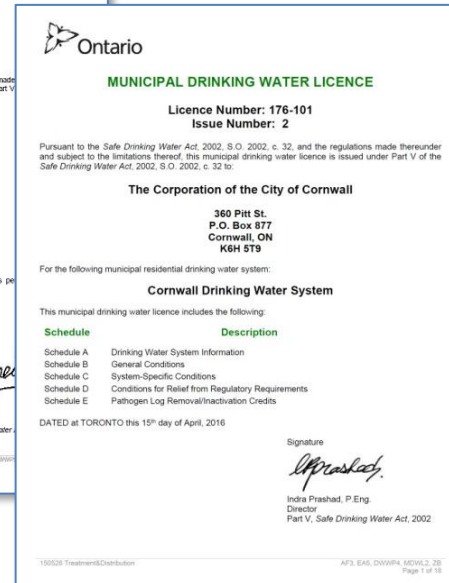
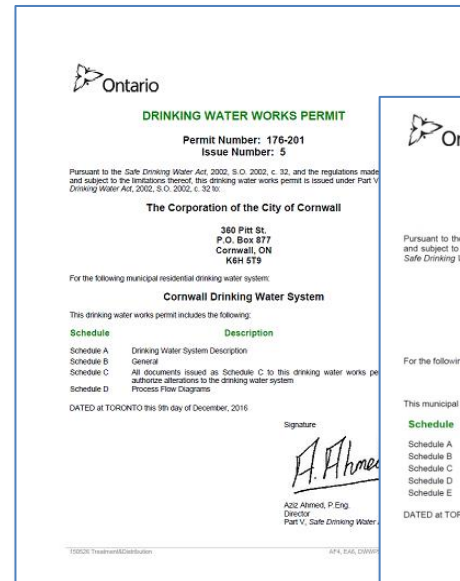
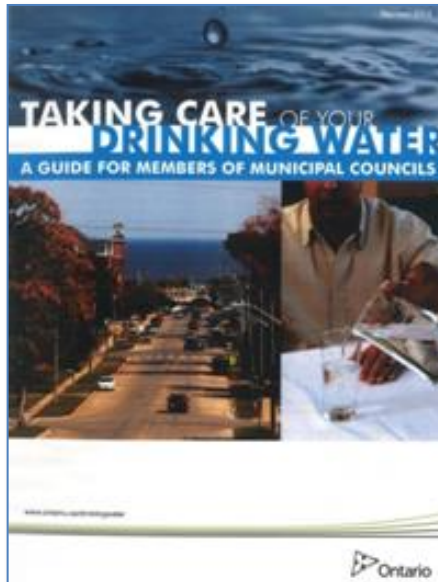
Build reserves for future capital rehabilitation and replacement

Establish rate stabilization reserves

Accounting for system revenue losses

# Compliance

- *Safe Drinking Water Act / Standard of Care*
- *Municipal Drinking Water Licence*
  - *O.Reg. 453/07 Water and Wastewater Financial Plan*





# Infrastructure/Asset Management

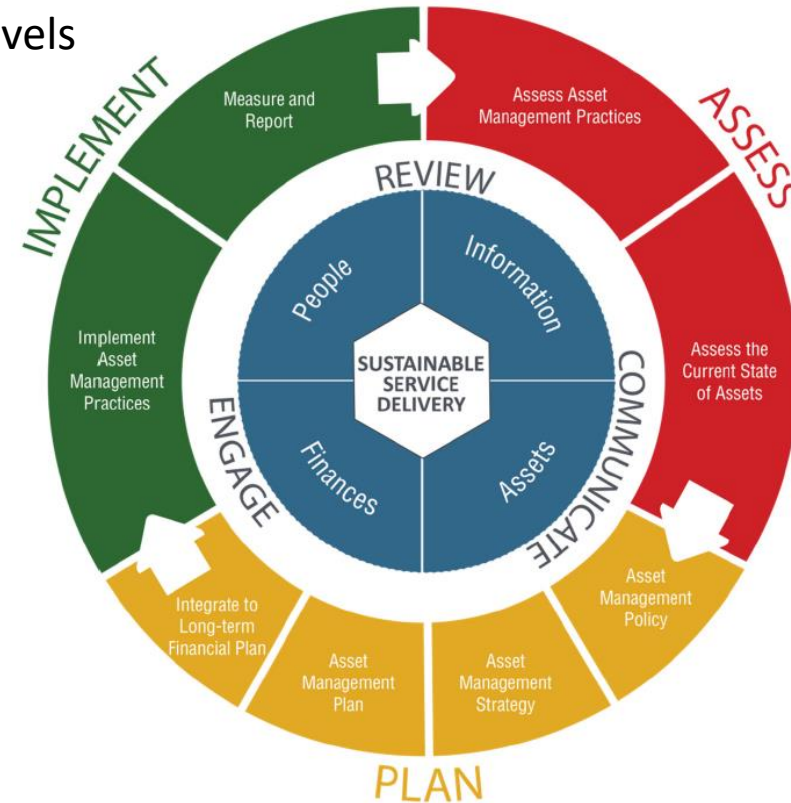
## Sustainable Service Delivery

The objective of asset management is to maximize benefits, manage risk, and provide satisfactory levels of service to the public in a sustainable manner.

Water and Wastewater Infrastructure:  
(2016 Asset Management Plan)

- ❑ 272km of watermains  
2016 estimated replacement value, \$135M  
Backlog \$41.2M
- ❑ 440km of wastewater pipes  
2016 estimated replacement value, \$321M  
Backlog \$6.8M
- ❑ Buildings and process equipment  
2016 estimated replacement value, \$223M  
Backlog \$1.2M

It is important to note that the 2021 proposed capital projects total \$9,120,000, which is only 1.34% of the estimated replacement values of these assets.



# Asset Management

## Phase 1:

July 1, 2019

Municipalities to finalize a strategic asset management policy that promotes best practices and links asset management planning with budgeting, operations, maintenance, and other municipal planning activities.



The City adopted its Asset Management Policy (FI-2019-06-24-1) on June 24, 2019 that meets the requirements of this section of the legislation.

## Phase 2:

July 1, 2021

Municipalities to approve an AMP for core assets that identifies current levels of service and the cost of maintaining those levels of service.

## Phase 3:

July 1, 2023

Municipalities to have an approved AMP for all municipal infrastructure assets that identifies current levels of service and the cost of maintaining those levels of service.

## Phase 4:

July 1, 2024

Municipalities to have an approved AMP for all municipal infrastructure assets that builds upon the requirements set out in 2023. This includes the identification of proposed levels of service, the activities required to meet proposed levels of service, and a strategy to fund these activities.

# Water Accomplishments

- Watermains replaced or relined
  - **2021, 2.8km (Proposed)**
  - **2020, 5.5km**
  - **2019, 2.3km**
  - **2018, 3.7km**
  - **2017, 3.2km**
  - **2016, 5.4km**
  - **2015, 5.8km**
  - **2014, 2.6km**
- 100% Inspection Rating from MECP  
(12 Straight Years)
- Raw Water Intake Redundancy EA - Underway



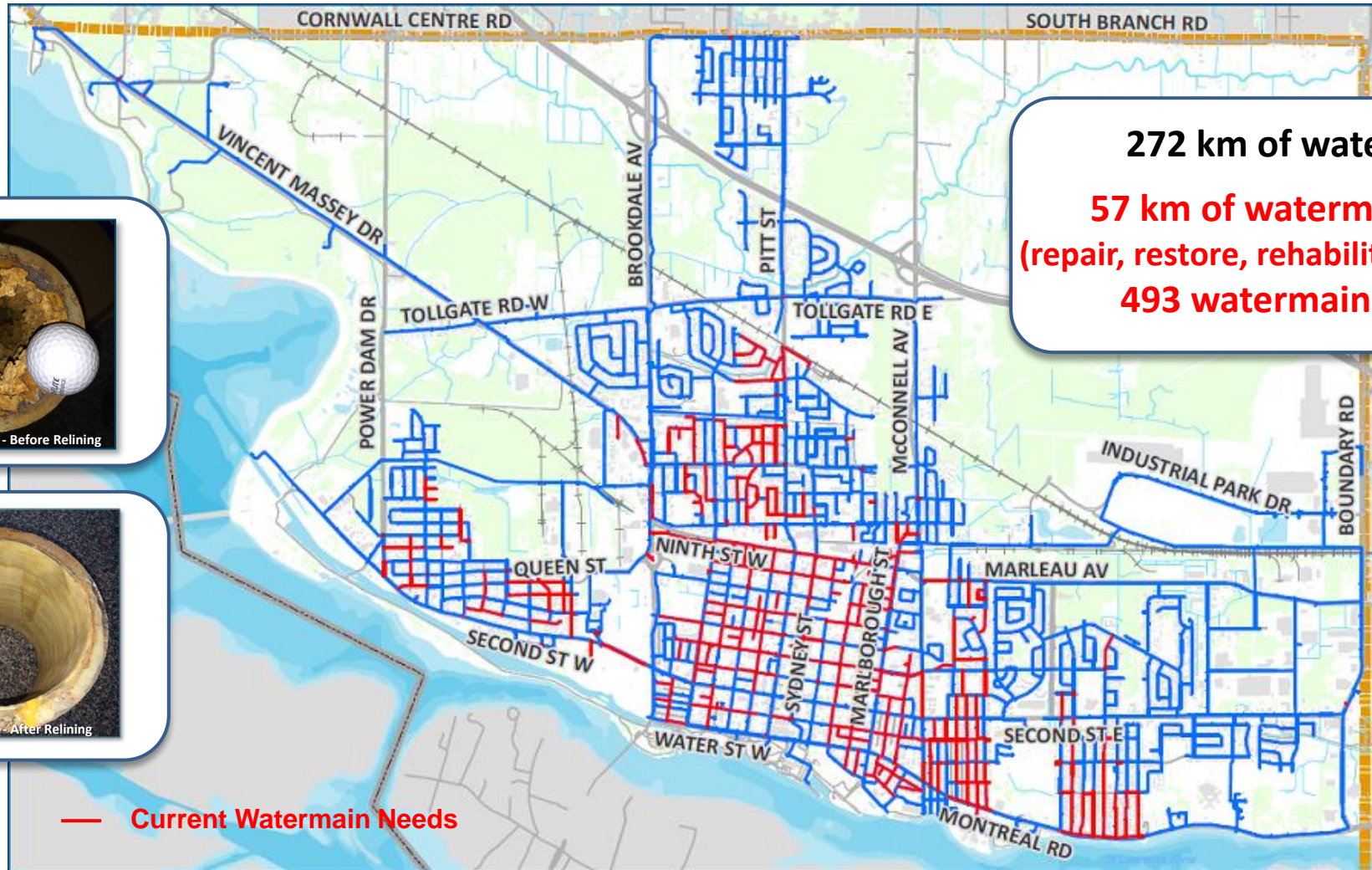


# Water System Challenges

- 35 Watermain breaks in 2020 YTD  
(Brookdale Av., Second St. W., Pitt St.)
- “Soft and Hard” Costs  
(repair, nuisance, unplanned disruptions)
- Climate Change  
(Taste and Odour, Frazil Ice)
- Financial sustainability
- Aging infrastructure
- Water / revenue losses
- Upper levels of government support



# Water Distribution Network



272 km of watermains

57 km of watermain needs  
(repair, restore, rehabilitate, or replace)  
493 watermain failures



Cast Iron Watermain - Before Relining



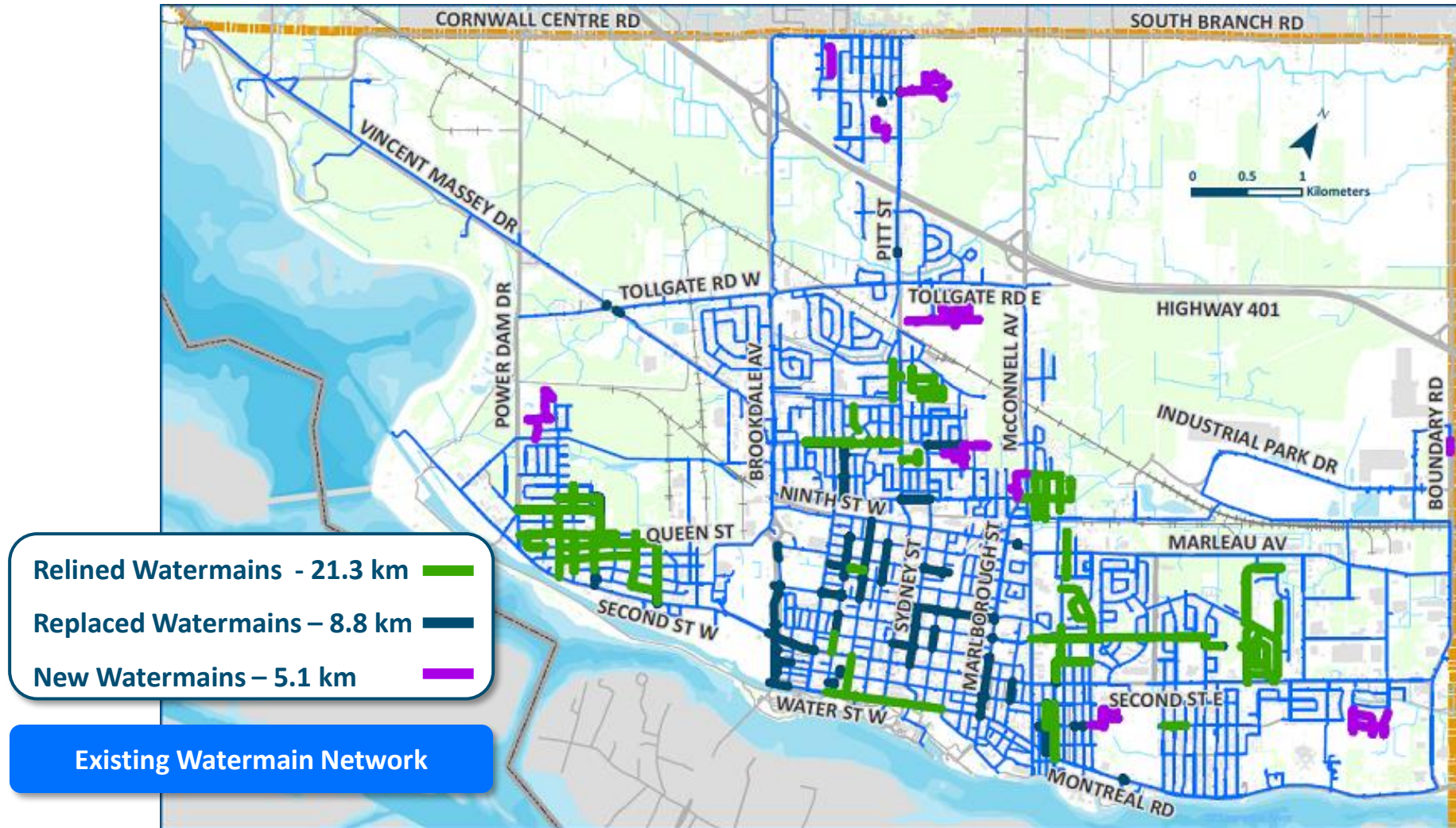
Cast Iron Watermain - After Relining

- Watermain failures as of November 2020
- 2020 watermain relining project reflected only
- Next map/database update to be completed following conclusion of 2020 construction season



# Water Distribution Network

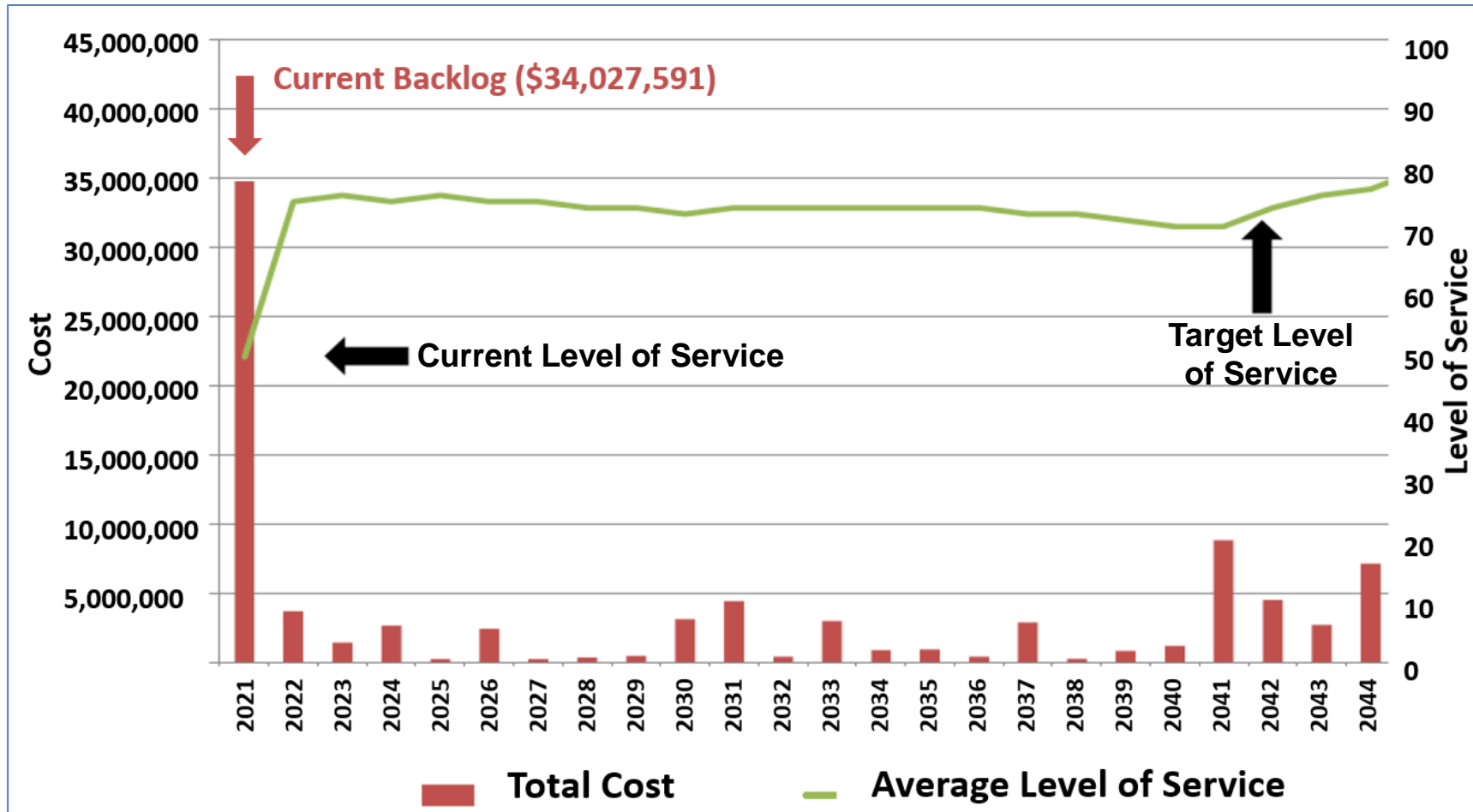
## Relined, Replaced & New Watermains (2013-2021)



- Next map/database update to be completed following conclusion of 2020 construction season
- 2020 watermain relining project reflected only
- New watermains added in new subdivisions

# Watermain Rehabilitation

## Water Network Budget and Level of Service



- Next database update to be completed following conclusion of 2020 construction season
- Backlog has been updated to reflect 2020 watermain relining projects only
- Chart originally generated for 2014 Asset Management Plan Report and subsequently adjusted to reflect status of current watermain backlog



# Watermain Rehabilitation

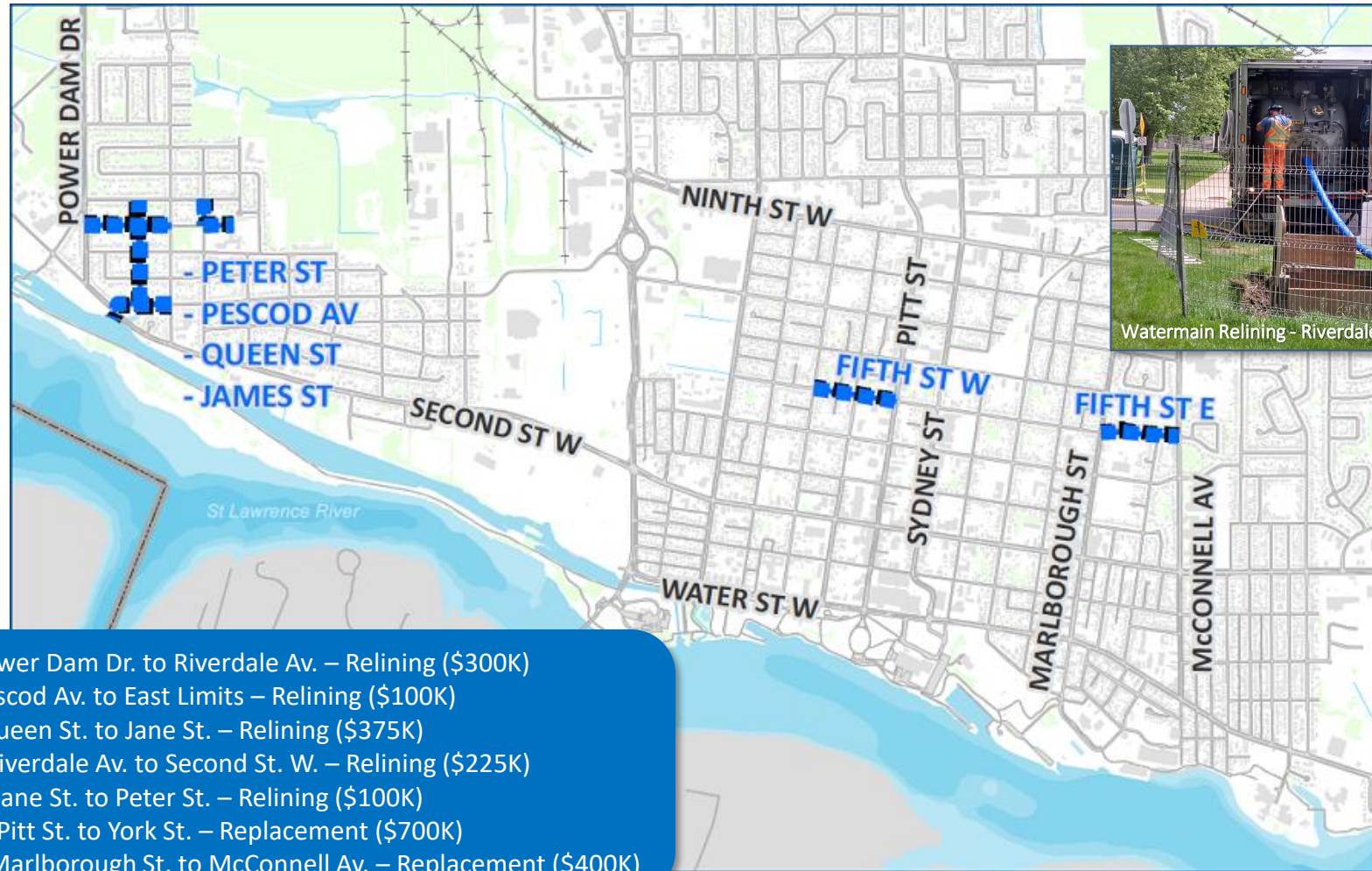
## Various Locations



Cast Iron Watermain - Before Relining



Cast Iron Watermain - After Relining



Watermain Relining - Riverdale

- Peter St.** from Power Dam Dr. to Riverdale Av. – Relining (\$300K)
- Peter St.** from Pescod Av. to East Limits – Relining (\$100K)
- James St.** from Queen St. to Jane St. – Relining (\$375K)
- Queen St.** from Riverdale Av. to Second St. W. – Relining (\$225K)
- Pescod Av.** from Jane St. to Peter St. – Relining (\$100K)
- Fifth St. W.** from Pitt St. to York St. – Replacement (\$700K)
- Fifth St. E.** from Marlborough St. to McConnell Av. – Replacement (\$400K)

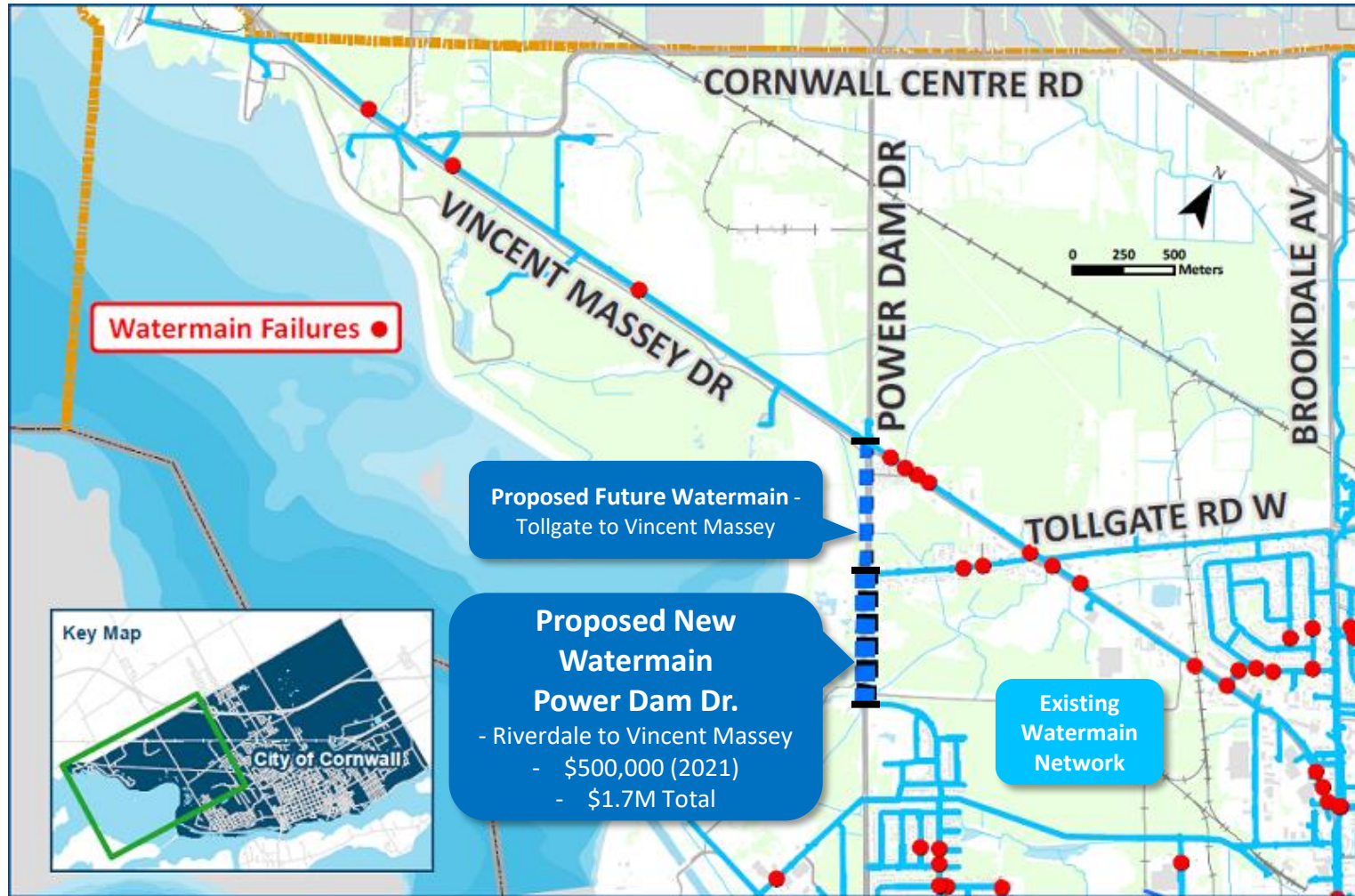


The project information sheet can be found on pg. 25 of the budget book.



# Watermain System Growth

## Critical Looping



Over the last number of years, the City has had 13 watermain breaks on VMD and 3 watermain breaks on Tollgate Road West.

Within the next 5 years, the watermain on VMD will need to be rehabilitated/replaced. The City has planned for the project in the 10-year capital plan at an estimated cost of \$10M.

This project will help provide redundancy to the residents/business owners along VMD and Tollgate Road West.



The project information sheet can be found on pg. 26 of the budget book.

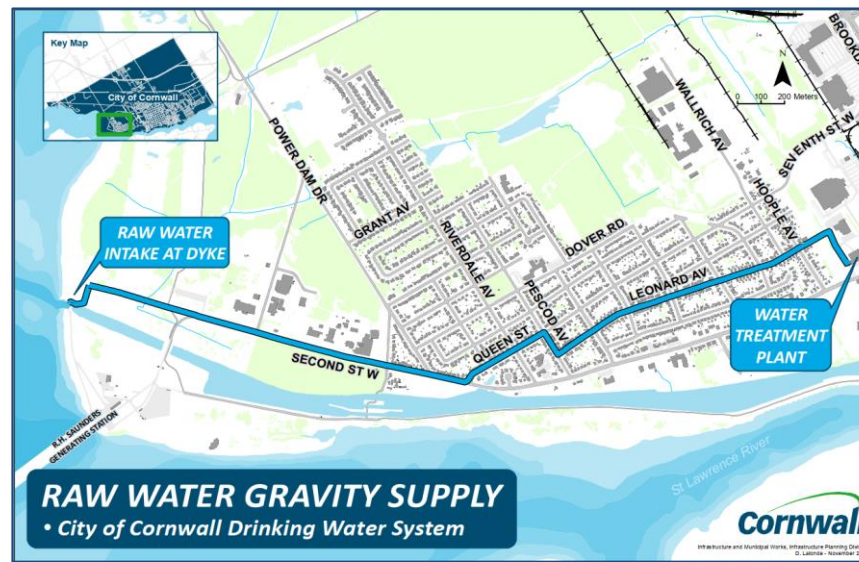
# Water Purification Plant

## Upgrades / Process Improvements

- Intake Screen Frazil Ice Mitigation Measures and Emergency Isolation Device
- Raw Water Intake Main Inspection / X-Ray
- Chlorine Injection System Replacement



Raw Water Intake Screen



Chlorine Injection System



The project information sheet can be found on pg. 27, 28, and 29 of the budget book.



# Water Purification Plant

## Upgrades / Process Improvements - Continued

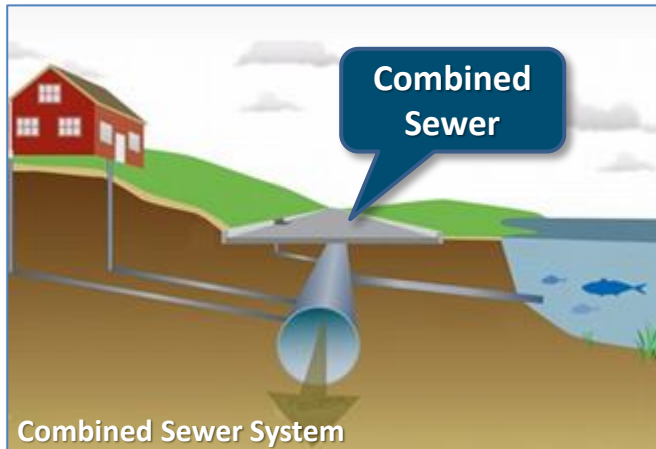
- Concrete Water Storage Tanks Condition Assessment
- Filter Inlet and Drain Sluice Gate Replacement
- Backwash Pump Replacement



The project information sheet can be found on pg. 30, 31, and 32 of the budget book.

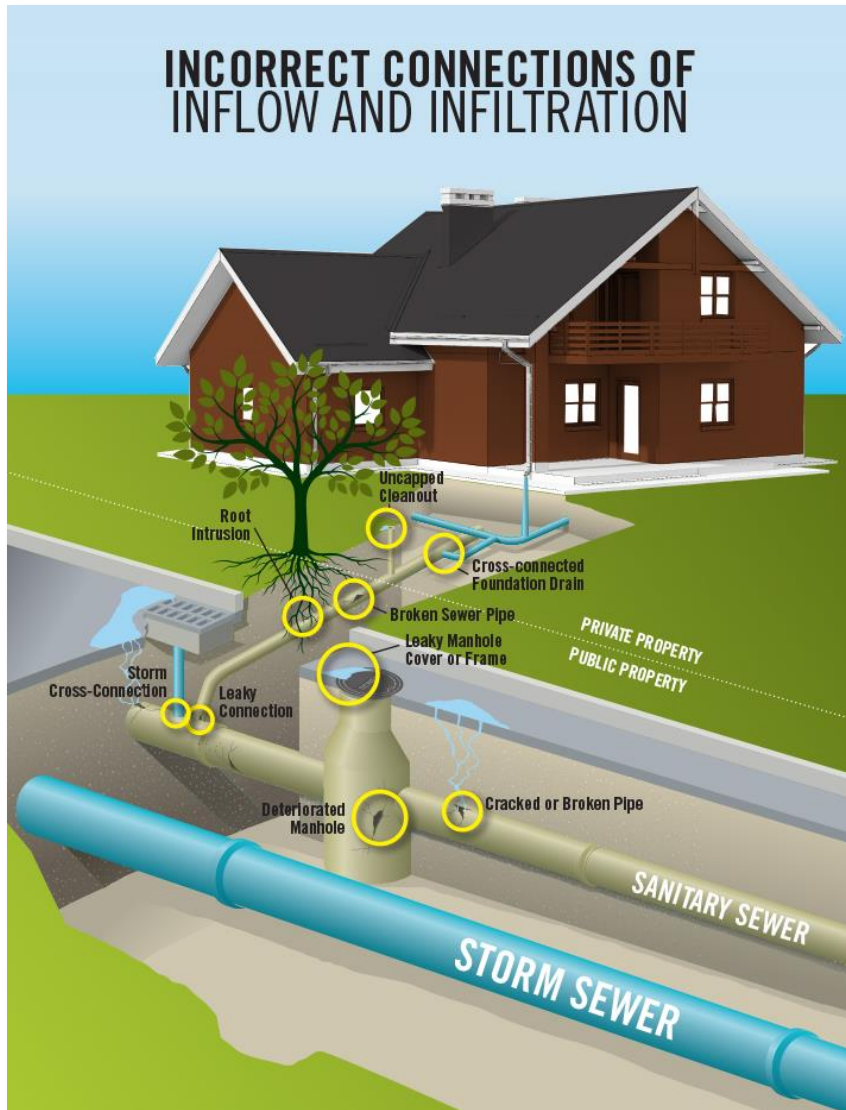
# Wastewater Accomplishments

- Ongoing optimization of enhanced secondary treatment at Waste Water Treatment Plant (WWTP)
- Re-Rating of Waste Water Treatment Plant
  - Awaiting MECP Approval
  - 55,000 m<sup>3</sup>/day to 65,000 m<sup>3</sup>/day (Average Daily Flow)
- Ongoing Combined Sewer Separation
  - In order to achieve fewer Combined Sewer Overflows (CSOs)

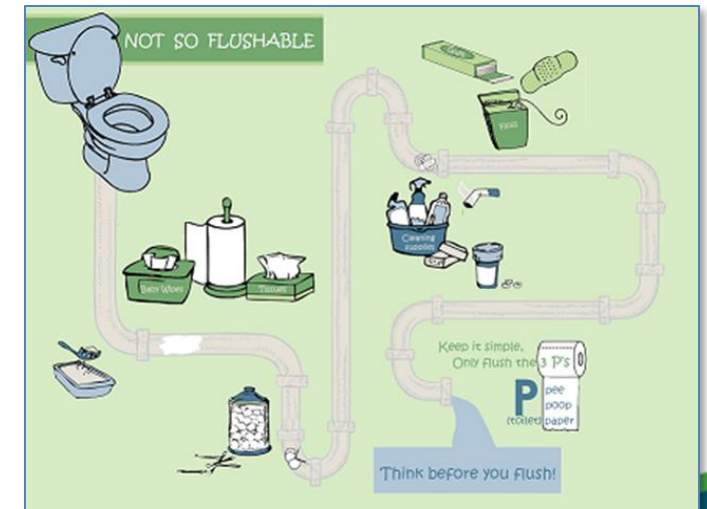




# Wastewater System Challenges



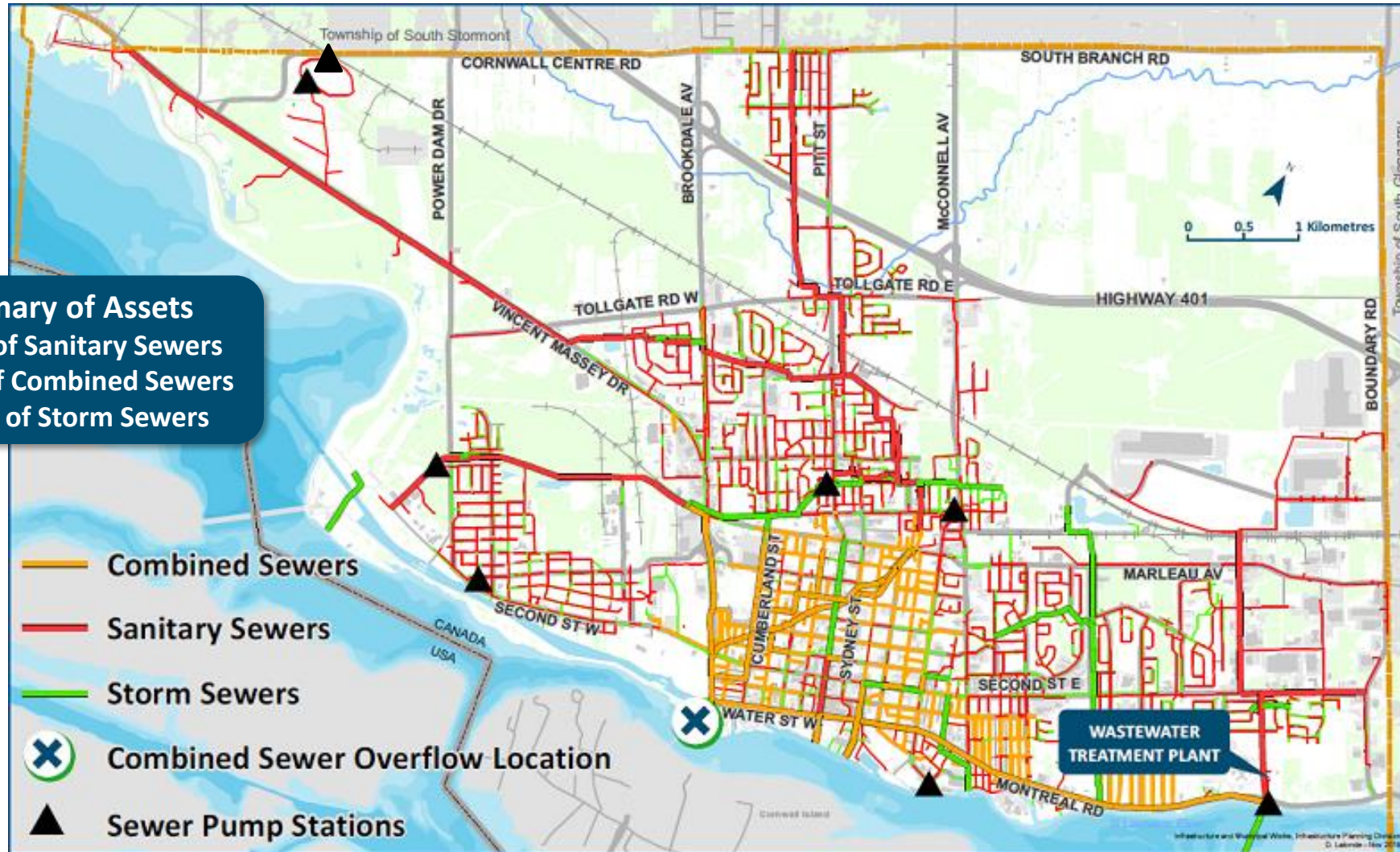
- 65 sewer lateral repairs in 2020 YTD
- Fats, oils, grease and flushables
- Climate change, flood risk reduction
- Combined Sewer Overflows (CSOs)
- Infiltration / inflow
- Sewer separation
- Financial sustainability
- Aging infrastructure
- Odour control





# Wastewater Collection Network

**Summary of Assets**  
202 km of Sanitary Sewers  
59 km of Combined Sewers  
145 km of Storm Sewers



- Next map/database update to be completed following conclusion of 2020 construction season



# Sewer Network Improvements

## Various Locations



**Fifth St. W.** from Pitt St. to York St. – Sanitary Sewer Replacement (\$250K)  
**Fifth St. E.** from Marlborough St. to McConnell Av. – Sanitary Sewer Replacement (\$350K)  
**Wellington St. E.** from Pitt St. to 120m E. – Storm Sewer Replacement (\$100K)  
**Thirteenth St. E.** from Sydney St. to 100m W. – Sanitary Sewer Replacement (\$100K)  
**Thirteenth St. W.** from Pitt St. to Aubin Av. – Sanitary Sewer Replacement (\$100K)  
**Third St. E.** from Marlborough St. to Gloucester St. – Sanitary Sewer Replacement (\$150K)



The project information sheet can be found on 33 budget book.

# Combined Sewer Separation

## Various Locations



**Fifth St. W.** from Pitt St. to York St. – New Storm Sewer (\$275K)  
**Fifth St. E.** from Marlborough St. to McConnell Av. – New Storm Sewer (\$250K)  
**Third St. E.** from Marlborough St. to Gloucester St. – New Storm Sewer (\$175K)



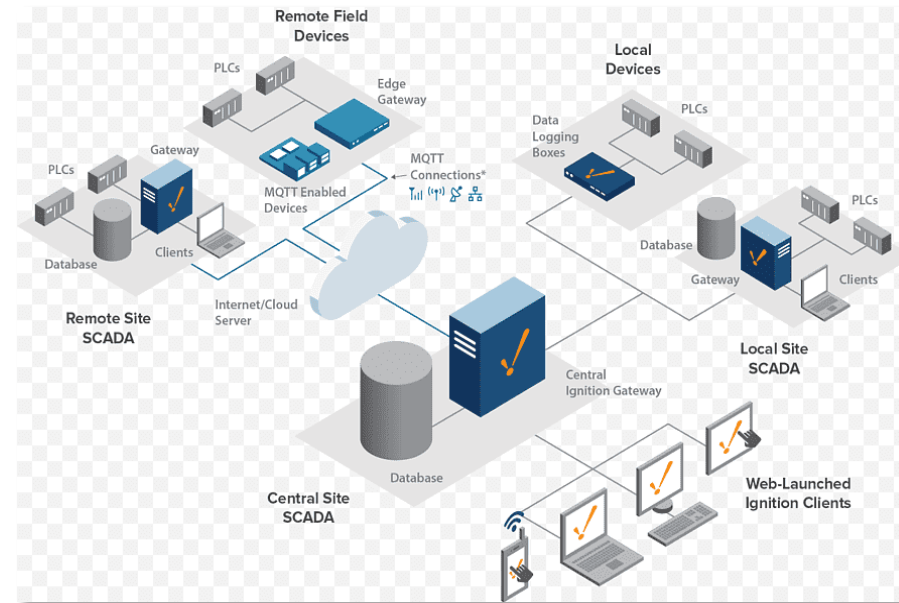
The project information sheet can be found on pg. 34 of the budget book.



# Wastewater Treatment Plant

## Upgrades / Process Improvements

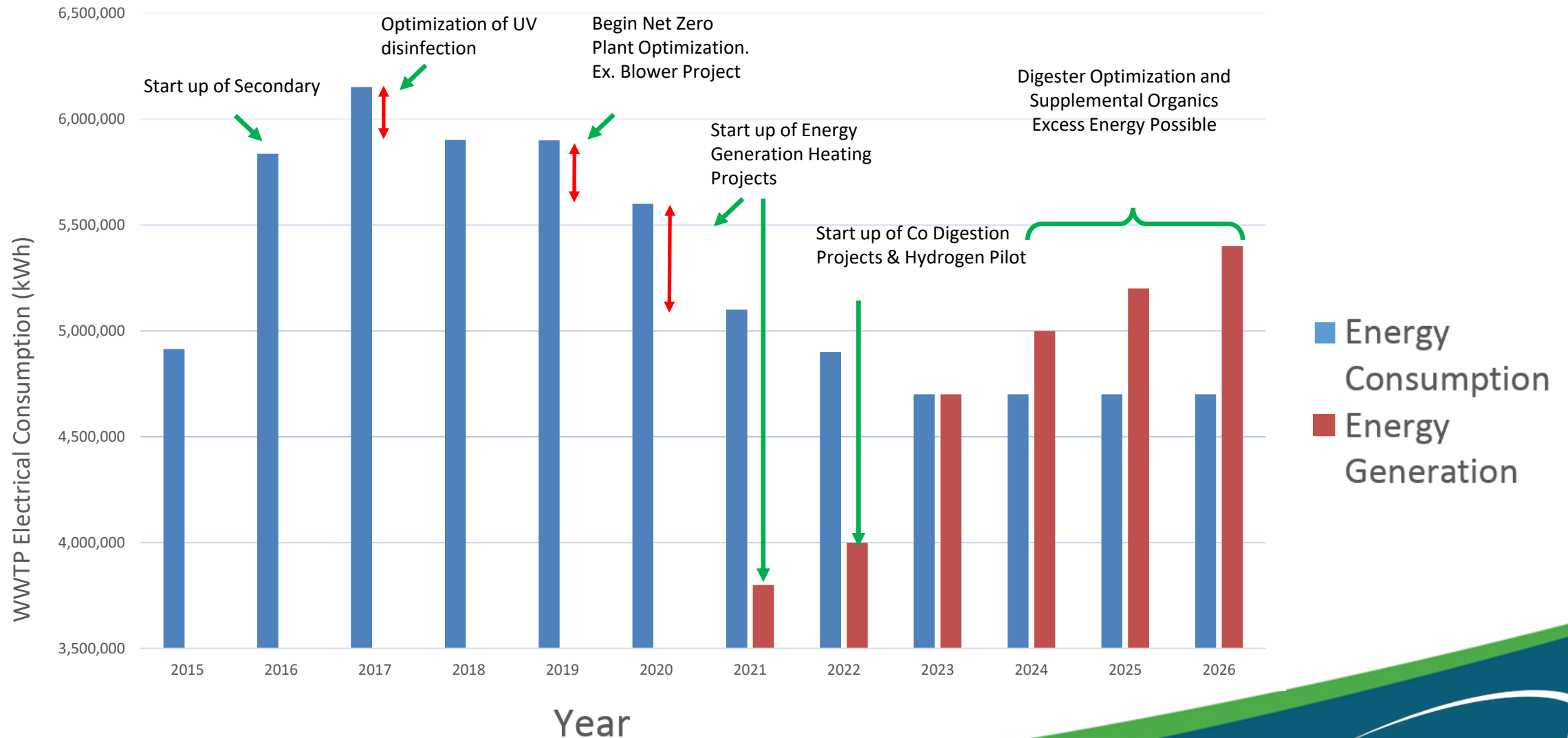
- Design Work for Pumphouse Headworks
- Replacement of Supervisory Control and Data Acquisition (SCADA) System



The project information sheet can be found on pg. 35 - 36 of the budget book.

# Wastewater Treatment Plant

## Net Zero Timelines and Major Project Steps



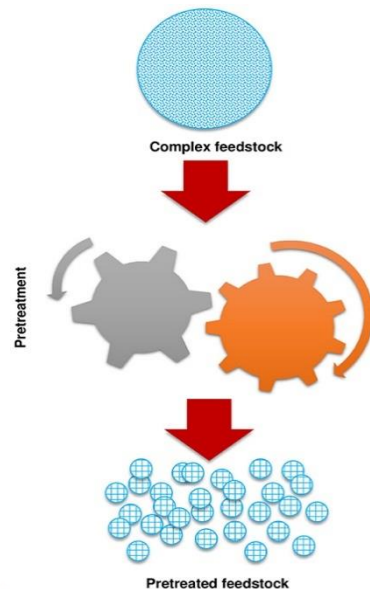


# Environmental Services

## Organics

**2021**

- Organic Tonnes Available
- Collection Method
- Pre-Processing Method
- Transportation Method



## Co-Digestion

**2021**

- Capacity
- Benefits
- Partners
- Funding



## Products

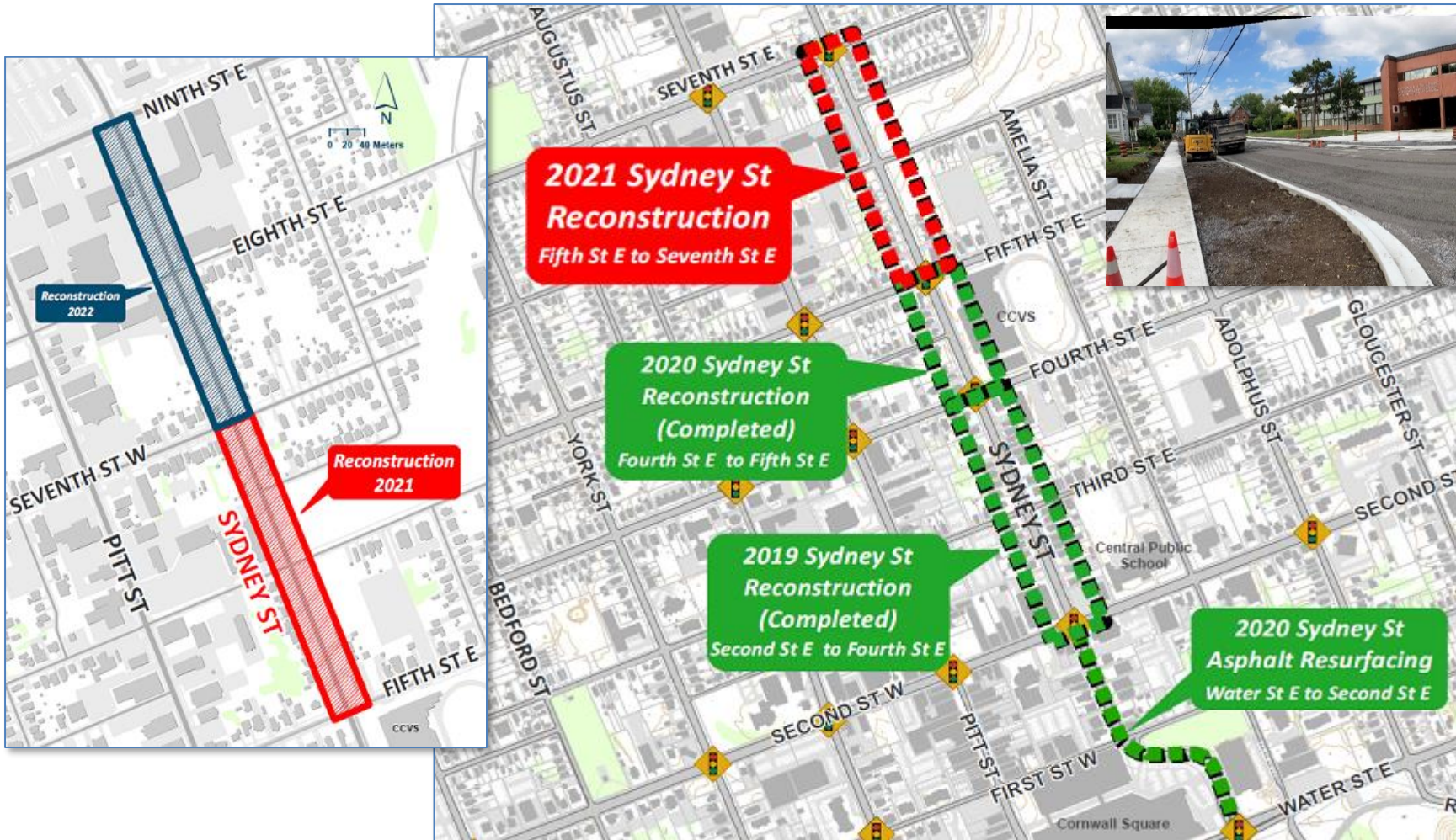
**2022-2025**

- Renewable Natural Gas
- Hydrogen
- Fertilizer
- Energy
- Heat for Building HVAC

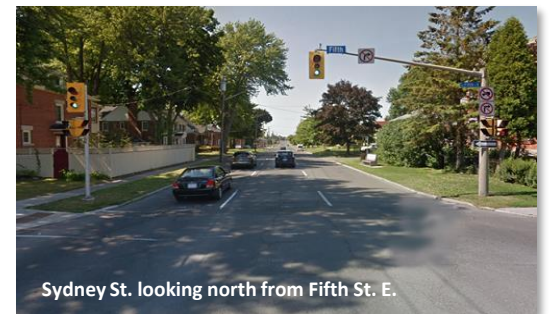


# Joint Infrastructure

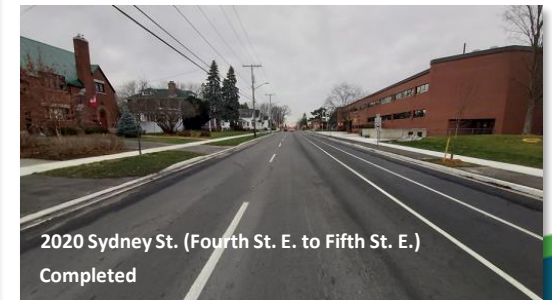
## Sydney St. Reconstruction (Fifth St. E. to Seventh St. E.)



2020 Sydney St. Reconstruction  
(Fourth St. E. to Fifth St. E.)



Sydney St. looking north from Fifth St. E.



2020 Sydney St. (Fourth St. E. to Fifth St. E.)  
Completed



The project information sheet can be found on pg. 37 of the budget book.



# Joint Infrastructure

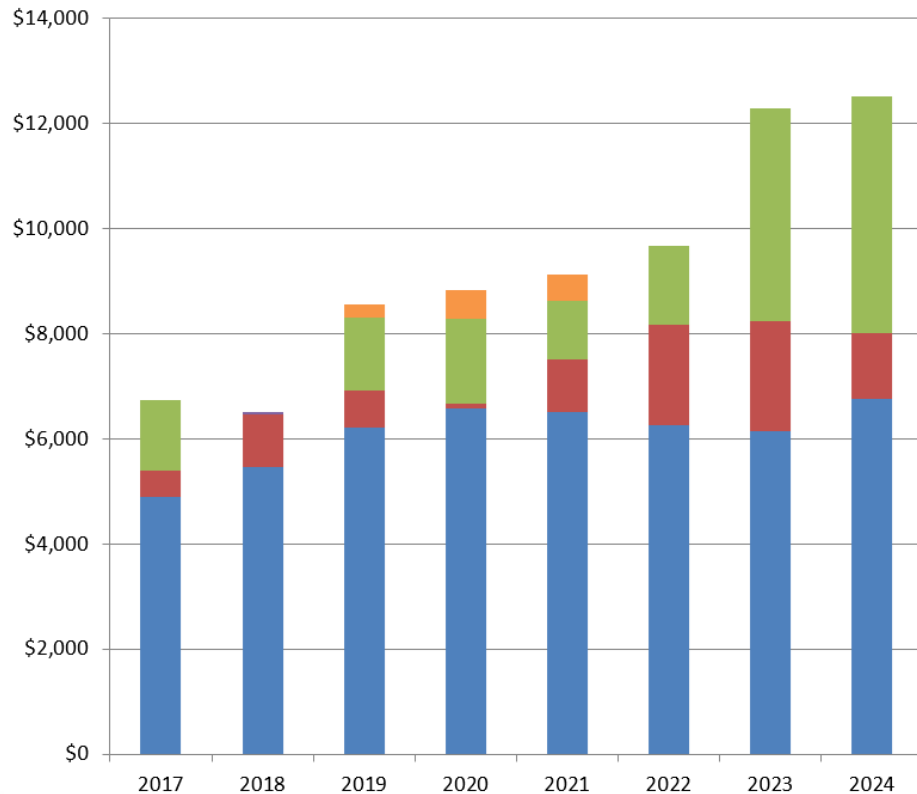
## York St. Reconstruction (Fourth St. W. to Fifth St. W.)



The project information sheet can be found on pg. 38 of the budget book.

# Capital Planning

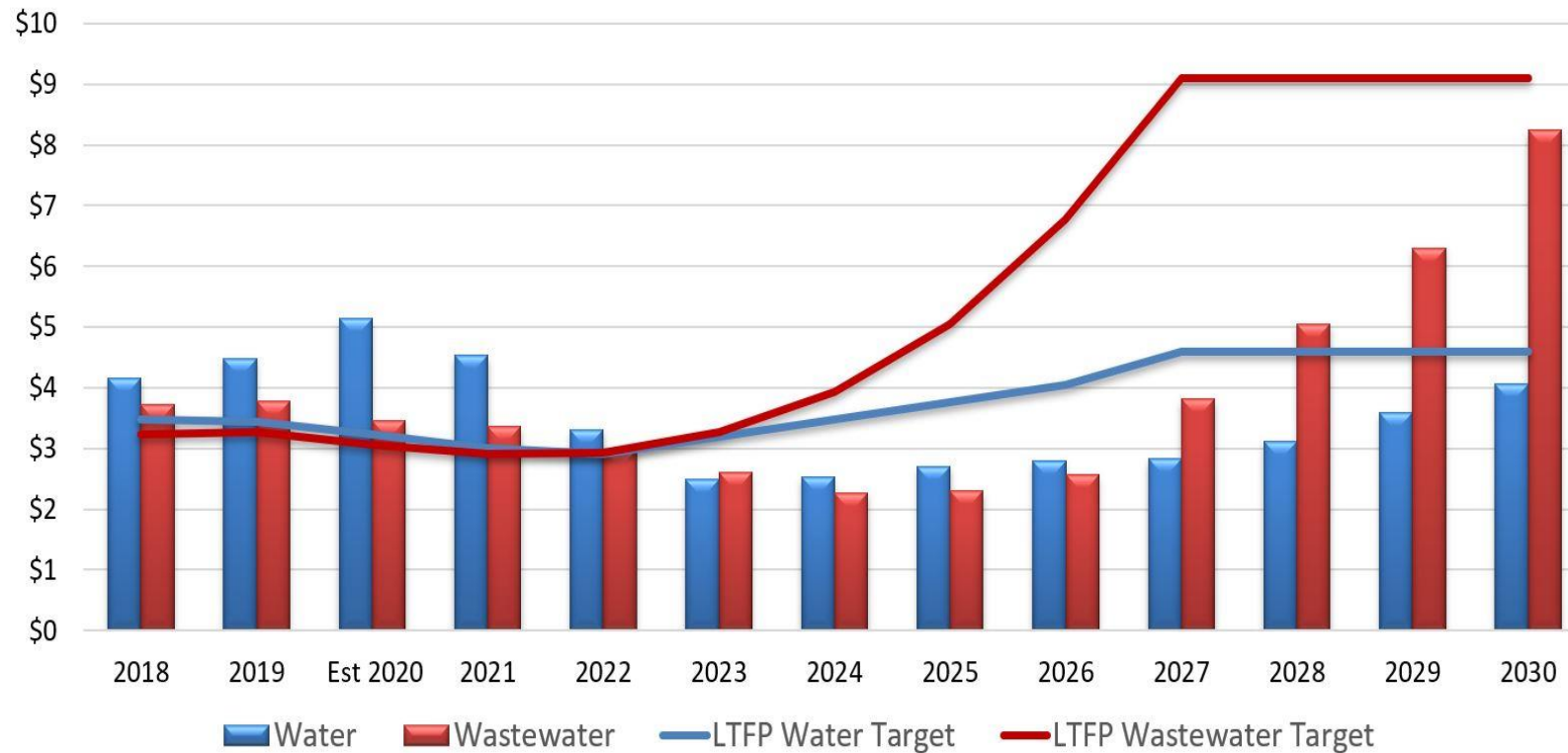
The following charts illustrate capital funding allocations (in the thousands of dollars) from the 2017, 2018, 2019, 2020 Budgets compared to the 2021 Submission and the plan for 2022, 2023, and 2024.



■ Billings
 ■ Reserves
 ■ Financing
 ■ Development Charges
 ■ Grants

	2017	2018	2019	2020	2021	2022	2023	2024
Water Distribution	\$1,560	\$2,250	\$2,130	\$2,550	\$2,700	\$2,750	\$5,300	\$5,350
Water Purification Plant	650	880	904	750	900	950	1,000	1,050
	<b>\$2,210</b>	<b>\$3,130</b>	<b>\$3,034</b>	<b>\$3,300</b>	<b>\$3,600</b>	<b>\$3,700</b>	<b>\$6,300</b>	<b>\$6,400</b>
Sewer Collection Program	\$800	\$800	\$1,005	\$1,050	\$1,050	\$1,075	\$1,100	\$1,125
Combined Sewer Separation	335	675	470	700	700	725	750	750
Wastewater Treatment Plant	550	890	820	975	620	1,620	1,550	1,590
Flood Reduction Initiatives	200	200	0	0	0	0	0	0
Brookdale N. Channel Bridge	1,350	0	0	0	0	0	0	0
	<b>\$3,235</b>	<b>\$2,565</b>	<b>\$2,295</b>	<b>\$2,725</b>	<b>\$2,370</b>	<b>\$3,420</b>	<b>\$3,400</b>	<b>\$3,465</b>
Joint Infrastructure Projects	<b>\$1,300</b>	<b>\$816</b>	<b>\$3,218</b>	<b>\$2,800</b>	<b>\$3,150</b>	<b>\$2,550</b>	<b>\$2,600</b>	<b>\$2,650</b>
<b>Total Project Costs</b>	<b>\$6,745</b>	<b>\$6,511</b>	<b>\$8,547</b>	<b>\$8,825</b>	<b>\$9,120</b>	<b>\$9,670</b>	<b>\$12,300</b>	<b>\$12,515</b>
Water Project Costs	\$2,860	\$3,836	\$4,333	\$4,700	\$5,250	\$4,975	\$7,600	\$7,725
Wastewater Project Costs	\$3,885	\$2,675	\$4,214	\$4,125	\$3,870	\$4,695	\$4,700	\$4,790

# Water Works and Wastewater Works Reserves

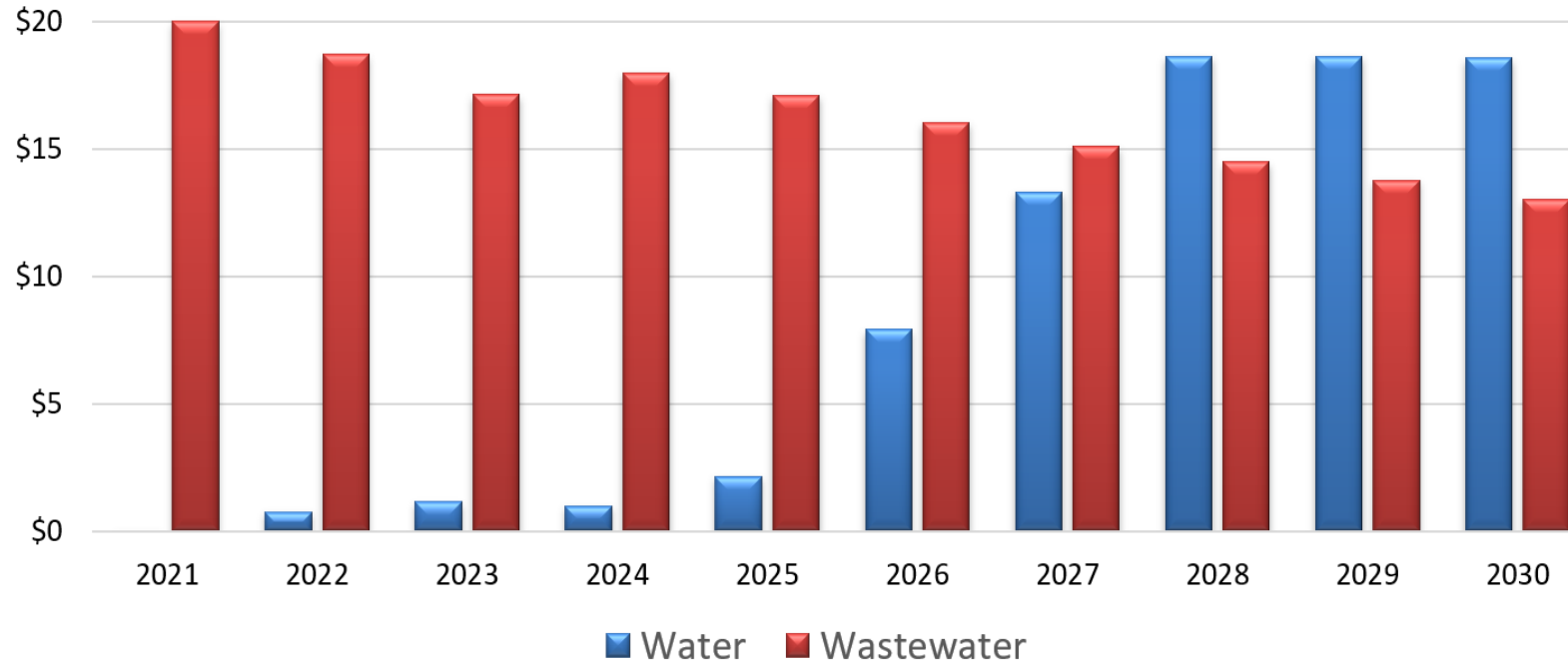


This chart illustrates historical balances (2018-2019) and the projected 2020 year-end balance as well as the ten-year (2021-2030) forecasted balance for the Water Works and the Wastewater Works Reserves compared to the targeted balances of the City's Long-Term Financial Plan.

\*Dollars rounded to millions



# Long-Term Borrowing (debt)



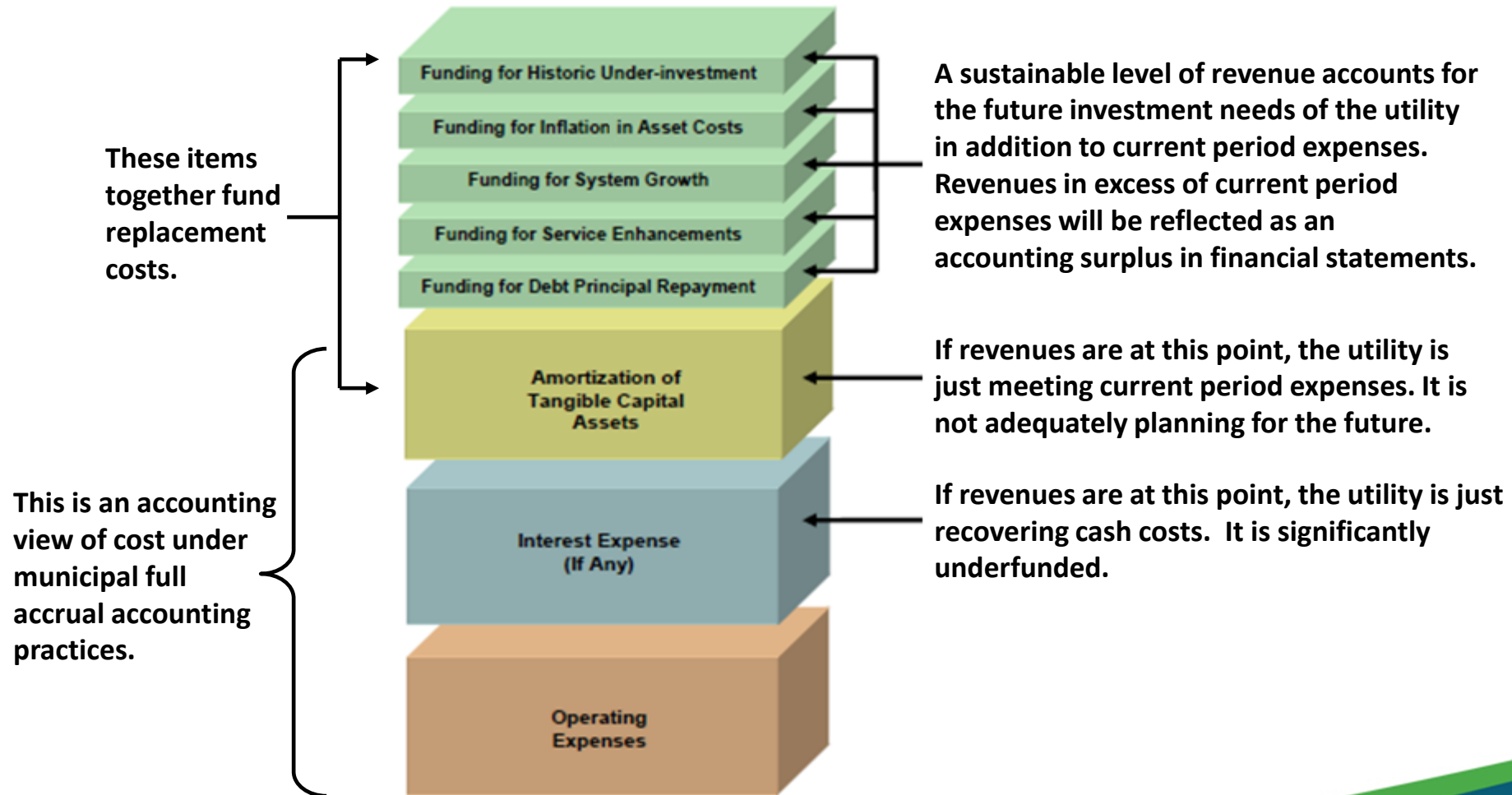
\*Dollars rounded to millions

This chart illustrates the ten-year (2021-2030) forecasted balance of Long-Term Debt. The City has borrowed for the Flood Reduction Initiative, including the Brookdale North Channel Bridge project, and for the Secondary WWTP. It is proposed to finance the remaining capital works for the York St. project. Water Services is currently debt free.

# Operating and Capital Financial Summary

	2020 Budget	2021 Submission	\$ Variance	% Variance	----- Plan -----	2022	2023	2024
EXPENDITURES								
Salaries and Benefits	\$4,502,376	\$4,634,591	\$132,215	2.94%	\$4,803,501	\$4,923,588	\$5,046,678	
Purchase of Goods	\$2,741,972	\$2,879,951	\$137,979	5.03%	\$2,908,751	\$2,937,838	\$2,967,216	
Services & Rent	\$2,039,922	\$2,120,307	\$80,385	3.94%	\$2,183,916	\$2,249,434	\$2,316,917	
Financial	\$230,810	\$238,966	\$8,156	3.53%	\$244,701	\$250,574	\$256,588	
Contribution to Reserves	\$250,000	\$250,000	\$0	0.00%	\$250,000	\$850,000	\$875,000	
Total Expenditures	\$9,765,080	\$10,123,815	\$358,735	3.67%	\$10,390,869	\$11,211,434	\$11,462,399	
REVENUE								
User Fees & Misc Revenue	\$268,300	\$379,300	\$111,000	41.37%	\$386,886	\$344,624	\$301,516	
Net Operating Expenditures	\$9,496,780	\$9,744,515	\$247,735	2.61%	\$10,003,983	\$10,866,810	\$11,160,883	
Financing LTD Principal & Interest	1,805,138	1,849,939	\$44,801	2.48%	2,689,997	2,847,160	2,846,985	
Corporate Costs	\$1,010,789	\$1,063,319	\$52,530	5.20%	\$1,084,585	\$1,106,277	\$1,128,403	
Insurance Premiums	\$187,402	\$205,763	\$18,361	9.80%	\$209,878	\$214,076	\$218,357	
Operating Water & Wastewater Billings	\$12,500,109	\$12,863,536	\$363,427	2.91%	\$13,988,443	\$15,034,323	\$15,354,628	
Gross Capital	\$8,825,000	\$9,120,000	\$295,000	3.34%	\$9,670,000	\$12,300,000	\$12,515,000	
Capital Funding								
Government Grants	\$0	\$0	\$0	0.00%	\$0	\$0	\$0	
Financing	\$1,600,000	\$1,100,000	(\$500,000)	(31.25%)	\$1,500,000	\$4,050,000	\$4,500,000	
Development Charges	\$550,000	\$500,000	(\$50,000)	(9.09%)	\$0	\$0	\$0	
Water Works Reserve	\$50,000	\$900,000	\$850,000	1,700.00%	\$1,500,000	\$1,100,000	\$250,000	
Wastewater Works Reserve	\$50,000	\$120,000	\$70,000	140.00%	\$400,000	\$1,000,000	\$1,000,000	
Capital Water & Wastewater Billings	\$6,575,000	\$6,500,000	(\$75,000)	(1.14%)	\$6,270,000	\$6,150,000	\$6,765,000	
WATER AND WASTEWATER BILLINGS	\$19,075,109	\$19,363,536	\$288,427	1.51%	\$20,258,443	\$21,184,323	\$22,119,628	

# Sustainable Financial Planning



(Source: Ontario Ministry of Environment, 2007, Toward Financially Sustainable Drinking Water and Wastewater Systems)



# 2021 Budget Submission to 2021 Plan

	2020 Budget	2021 Submission	\$ Variance	% Variance	2021 Plan	2021 Submission	\$ Variance	% Variance
<b>EXPENDITURES</b>								
Salaries and Benefits	\$4,502,376	\$4,634,591	\$132,215	2.94%	\$4,614,935	\$4,634,591	\$19,656	0.43%
Purchase of Goods	\$2,741,972	\$2,879,951	\$137,979	5.03%	\$2,769,392	\$2,879,951	\$110,559	3.99%
Services & Rent	\$2,039,922	\$2,120,307	\$80,385	3.94%	\$2,101,120	\$2,120,307	\$19,187	0.91%
Financial	\$230,810	\$238,966	\$8,156	3.53%	\$236,349	\$238,966	\$2,617	1.11%
Contribution to Reserves	\$250,000	\$250,000	\$0	0.00%	\$250,000	\$250,000	\$0	0.00%
<b>Total Expenditures</b>	<b>\$9,765,080</b>	<b>\$10,123,815</b>	<b>\$358,735</b>	<b>3.67%</b>	<b>\$9,971,796</b>	<b>\$10,123,815</b>	<b>\$152,019</b>	<b>1.52%</b>
<b>REVENUE</b>								
User Fees & Misc Revenue	\$268,300	\$379,300	\$111,000	41.37%	\$273,666	\$379,300	\$105,634	38.60%
<b>Net Operating Expenditures</b>	<b>\$9,496,780</b>	<b>\$9,744,515</b>	<b>\$247,735</b>	<b>2.61%</b>	<b>\$9,698,130</b>	<b>\$9,744,515</b>	<b>\$46,385</b>	<b>0.48%</b>
Financing LTD Principal & Interest	1,805,138	1,849,939	\$44,801	2.48%	2,218,066	1,849,939	(\$368,127)	(16.60%)
Corporate Costs	\$1,010,789	\$1,063,319	\$52,530	5.20%	\$1,031,005	\$1,063,319	\$32,314	3.13%
Insurance Premiums	\$187,402	\$205,763	\$18,361	9.80%	\$191,150	\$205,763	\$14,613	7.64%
<b>Operating Water &amp; Wastewater Billings</b>	<b>\$12,500,109</b>	<b>\$12,863,536</b>	<b>\$363,427</b>	<b>2.91%</b>	<b>\$13,138,351</b>	<b>\$12,863,536</b>	<b>(\$274,815)</b>	<b>(2.09%)</b>
Gross Capital	\$8,825,000	\$9,120,000	\$295,000	3.34%	\$11,300,000	\$9,120,000	(\$2,180,000)	(19.29%)
Capital Funding								
Government Grants	\$0	\$0	\$0	0.00%	\$1,980,000	\$0	(\$1,980,000)	(100.00%)
Financing	\$1,600,000	\$1,100,000	(\$500,000)	(31.25%)	\$1,020,000	\$1,100,000	\$80,000	7.84%
Development Charges	\$550,000	\$500,000	(\$50,000)	(9.09%)	\$0	\$500,000	\$500,000	100.00%
Water Works Reserve	\$50,000	\$900,000	\$850,000	1,700.00%	\$1,300,000	\$900,000	(\$400,000)	(30.77%)
Wastewater Works Reserve	\$50,000	\$120,000	\$70,000	140.00%	\$300,000	\$120,000	(\$180,000)	(60.00%)
<b>Capital Water &amp; Wastewater Billings</b>	<b>\$6,575,000</b>	<b>\$6,500,000</b>	<b>(\$75,000)</b>	<b>(1.14%)</b>	<b>\$6,700,000</b>	<b>\$6,500,000</b>	<b>(\$200,000)</b>	<b>(2.99%)</b>
<b>WATER AND WASTEWATER BILLINGS</b>	<b>\$19,075,109</b>	<b>\$19,363,536</b>	<b>\$288,427</b>	<b>1.51%</b>	<b>\$19,838,351</b>	<b>\$19,363,536</b>	<b>(\$474,815)</b>	<b>(2.39%)</b>

The 2020 Budget forecasted an increase of 4.0% for the 2021 Plan.

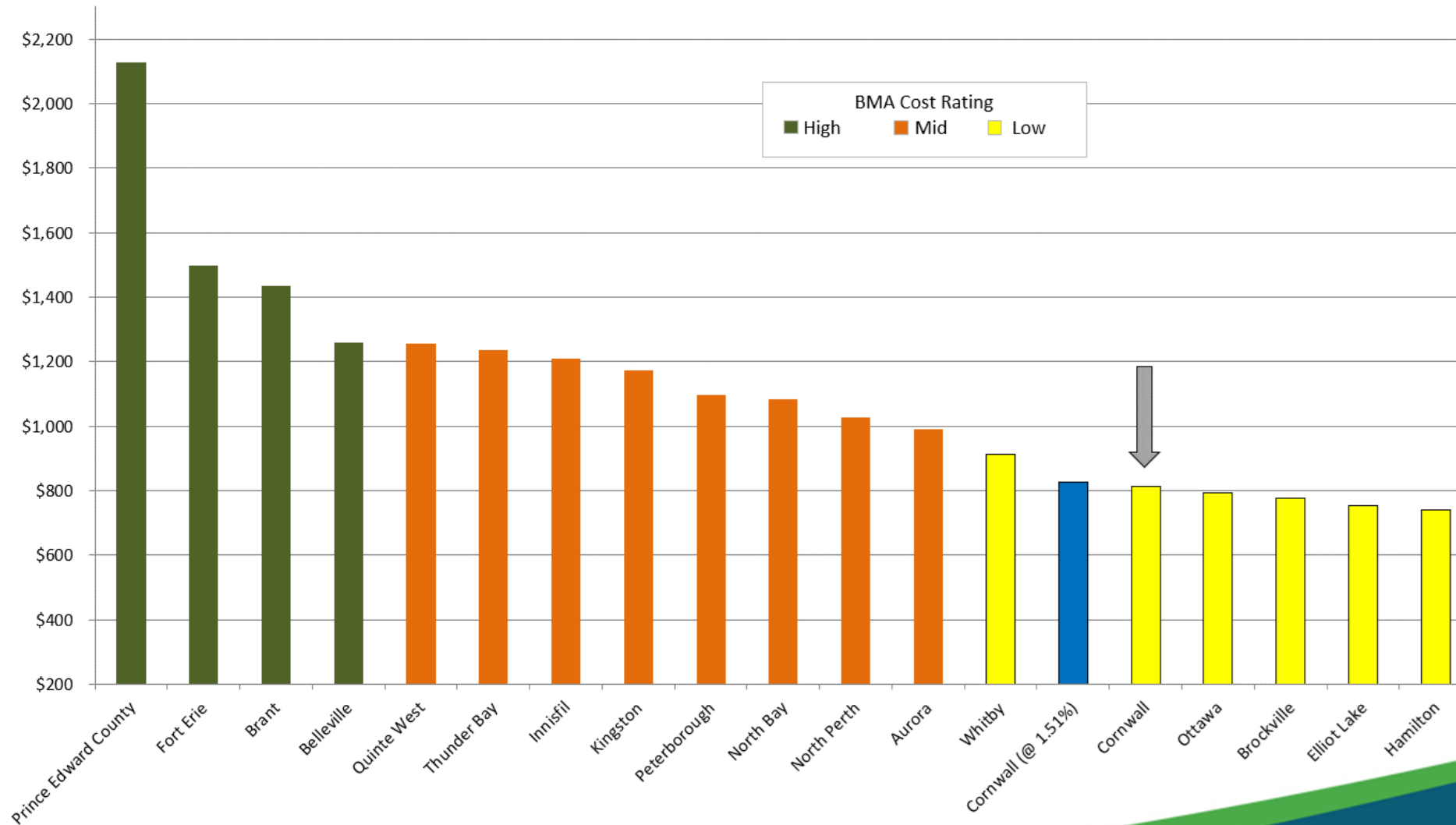
The Water Financial Plan recommends an annual increase of 5.6%.

The 2021 Budget for Water and Wastewater billings decreased by \$474,815 when compared to the 2021 Plan.

- Operating \$274,815 (2.09%)
- Capital \$200,000 (2.99%)

# Municipal Comparators

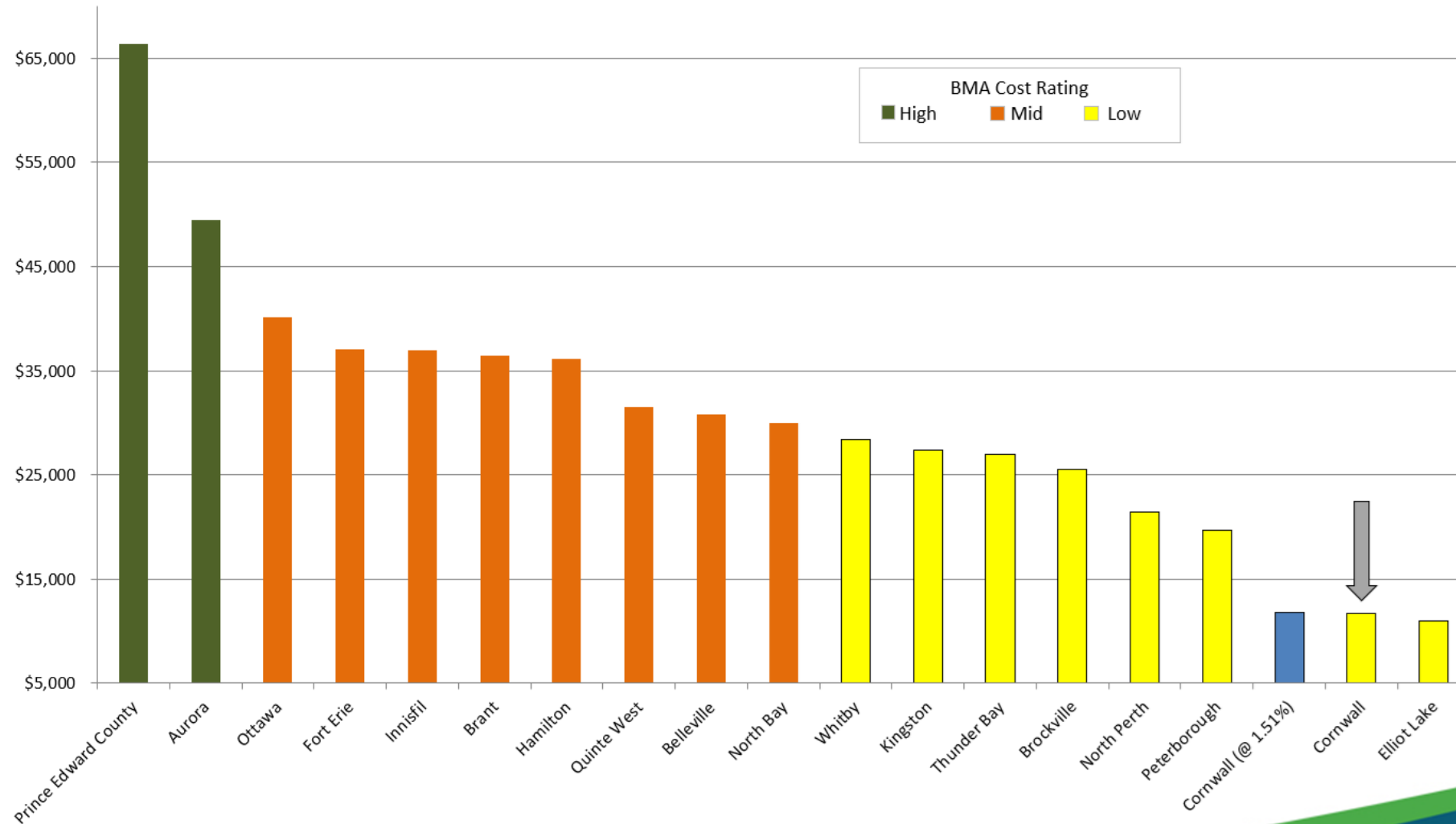
Residential Water / Wastewater Costs per 200m<sup>3</sup>



\* Source: 2020 BMA Study (see Appendix A)

# Municipal Comparators

Commercial Water / Wastewater Costs per 10,000m<sup>3</sup>



\* Source: 2020 BMA Study (see Appendix B)



# Budget Summary

- The 2021 budget has been prepared with an overall increase of 1.51% to the utility bill.
  - Water billings represent an 1.35% increase (\$112,242)
  - Wastewater billings represent a 1.64% increase (\$176,185)
- Net Operating increased by \$363,427 or 2.91%.
- Net Capital decreased by \$75,000 or 1.14%.


For a residential property, it is estimated that in 2021 this would reflect an annual average increase of about \$12.





**Thank You.  
Questions?**



**Comparison of Water/Wastewater Costs—Residential (sorted lowest to highest)**


Volume	Residential	Residential
Meter Size	200 m <sup>3</sup>	200 m <sup>3</sup>
	5/8"	Ranking
Mississauga	\$ 522	Low
Caledon	\$ 522	Low
Brampton	\$ 522	Low
Kingsville	\$ 646	Low
Hamilton	\$ 739	Low
Elliot Lake	\$ 752	Low
Hanover	\$ 761	Low
Brockville	\$ 776	Low
Hawkesbury	\$ 792	Low
Ottawa	\$ 794	Low
Cornwall	\$ 813	Low
Toronto	\$ 815	Low
New Tecumseth	\$ 852	Low
Stratford	\$ 855	Low
Pelham	\$ 878	Low
Sault Ste. Marie	\$ 880	Low
Brantford	\$ 887	Low
Markham	\$ 894	Low
Oakville	\$ 902	Low
Milton	\$ 902	Low
Burlington	\$ 902	Low
Halton Hills	\$ 902	Low
London	\$ 909	Low
Brock	\$ 913	Low
Oshawa	\$ 913	Low
Clarington	\$ 913	Low
Whitby	\$ 913	Low
Vaughan	\$ 914	Low
Tillsonburg	\$ 914	Low
Waterloo	\$ 939	Low
Orillia	\$ 941	Low
Guelph	\$ 947	Low
Timmins	\$ 947	Low
Richmond Hill	\$ 948	Low
Niagara Falls	\$ 954	Low

Volume	Residential	Residential
Meter Size	200 m <sup>3</sup>	200 m <sup>3</sup>
	5/8"	Ranking
Barrie	\$ 972	Mid
St. Catharines	\$ 974	Mid
Aurora	\$ 990	Mid
Strathroy-Caradoc	\$ 1,001	Mid
Kincardine	\$ 1,007	Mid
Sarnia	\$ 1,007	Mid
Collingwood	\$ 1,014	Mid
North Perth	\$ 1,028	Mid
Orangeville	\$ 1,035	Mid
Haldimand	\$ 1,038	Mid
St. Thomas	\$ 1,054	Mid
Lincoln	\$ 1,056	Mid
Lakeshore	\$ 1,077	Mid
North Bay	\$ 1,082	Mid
The Blue Mountains	\$ 1,086	Mid
Peterborough	\$ 1,097	Mid
Whitchurch-Stouffville	\$ 1,105	Mid
Thorold	\$ 1,113	Mid
Kitchener	\$ 1,132	Mid
Georgina	\$ 1,145	Mid
Saugeen Shores	\$ 1,147	Mid
West Lincoln	\$ 1,168	Mid
Cambridge	\$ 1,171	Mid
Niagara-on-the-Lake	\$ 1,172	Mid
Kingston	\$ 1,174	Mid
Chatham-Kent	\$ 1,174	Mid
North Dumfries	\$ 1,174	Mid
Wilmot	\$ 1,178	Mid
Espanola	\$ 1,199	Mid
Innisfil	\$ 1,208	Mid
North Middlesex	\$ 1,218	Mid
Thunder Bay	\$ 1,235	Mid
Woolwich	\$ 1,246	Mid
Wellington North	\$ 1,246	Mid
Quinte West	\$ 1,256	Mid

Volume	Residential	Residential
Meter Size	200 m <sup>3</sup>	200 m <sup>3</sup>
	5/8"	Ranking
Huntsville	\$ 1,256	High
Bracebridge	\$ 1,256	High
Gravenhurst	\$ 1,256	High
Ingersoll	\$ 1,258	High
Belleville	\$ 1,259	High
Newmarket	\$ 1,276	High
Windsor	\$ 1,287	High
Owen Sound	\$ 1,293	High
Centre Wellington	\$ 1,298	High
Wellesley	\$ 1,308	High
Grey Highlands	\$ 1,322	High
Greater Sudbury	\$ 1,339	High
Welland	\$ 1,353	High
Norfolk	\$ 1,366	High
Springwater	\$ 1,426	High
Mapleton	\$ 1,430	High
Brant	\$ 1,433	High
King	\$ 1,433	High
Guelph-Eramosa	\$ 1,444	High
West Grey	\$ 1,449	High
East Gwillimbury	\$ 1,454	High
Port Colborne	\$ 1,480	High
Fort Erie	\$ 1,496	High
Parry Sound	\$ 1,506	High
Lambton Shores	\$ 1,571	High
Minto	\$ 1,608	High
Southgate	\$ 1,679	High
Central Elgin	\$ 1,737	High
Middlesex Centre	\$ 1,756	High
Kenora	\$ 1,762	High
Greenstone	\$ 1,791	High
Meaford	\$ 1,814	High
South Bruce Peninsula	\$ 1,854	High
Prince Edward County	\$ 2,128	High
Chatsworth	\$ 2,131	High


The 2020 BMA Municipal Study indicates that annual user fees for water and wastewater services in Cornwall are among the lowest when compared to the other participating municipalities.

**Residential**

- Cornwall: \$813
- BMA average: \$1,151
- BMA median: \$1,113



### Comparison of Water/Wastewater Costs—Commercial (sorted lowest to highest)



Volume Meter Size	Commercial 10,000 m <sup>3</sup> 2"	Commercial 10,000 m <sup>3</sup> Ranking
Elliot Lake	\$ 10,980	Low
Cornwall	\$ 11,677	Low
Sarnia	\$ 18,351	Low
Collingwood	\$ 18,527	Low
Kincardine	\$ 19,187	Low
Peterborough	\$ 19,672	Low
Grey Highlands	\$ 20,150	Low
West Grey	\$ 20,834	Low
Hawkesbury	\$ 21,176	Low
North Perth	\$ 21,413	Low
Espanola	\$ 21,815	Low
Hanover	\$ 23,082	Low
Kingsville	\$ 23,586	Low
Brockville	\$ 25,501	Low
Brampton	\$ 26,092	Low
Caledon	\$ 26,092	Low
Mississauga	\$ 26,092	Low
Tillsonburg	\$ 26,164	Low
St. Thomas	\$ 26,180	Low
Niagara Falls	\$ 26,392	Low
London	\$ 26,625	Low
Thunder Bay	\$ 26,921	Low
Ingersoll	\$ 27,331	Low
Kingston	\$ 27,335	Low
Pelham	\$ 27,617	Low
Stratford	\$ 27,685	Low
Chatham-Kent	\$ 28,277	Low
Clarington	\$ 28,371	Low
Oshawa	\$ 28,371	Low
Brock	\$ 28,371	Low
Whitby	\$ 28,371	Low
Niagara-on-the-Lake	\$ 29,415	Low
North Bay	\$ 29,952	Low
Port Colborne	\$ 30,169	Low
Saugeen Shores	\$ 30,441	Low

Volume Meter Size	Commercial 10,000 m <sup>3</sup> 2"	Commercial 10,000 m <sup>3</sup> Ranking
Oakville	\$ 30,499	Mid
Milton	\$ 30,499	Mid
Halton Hills	\$ 30,499	Mid
Burlington	\$ 30,499	Mid
Belleville	\$ 30,778	Mid
Lakeshore	\$ 30,869	Mid
Haldimand	\$ 31,491	Mid
Quinte West	\$ 31,496	Mid
Windsor	\$ 31,947	Mid
Thorold	\$ 32,532	Mid
Timmins	\$ 32,533	Mid
Sault Ste. Marie	\$ 34,111	Mid
St. Catharines	\$ 34,449	Mid
Toronto	\$ 34,625	Mid
Kenora	\$ 35,066	Mid
Orillia	\$ 35,713	Mid
Hamilton	\$ 36,089	Mid
Brant	\$ 36,412	Mid
West Lincoln	\$ 36,476	Mid
Innisfil	\$ 36,916	Mid
Fort Erie	\$ 37,072	Mid
Owen Sound	\$ 37,686	Mid
North Middlesex	\$ 37,868	Mid
Strathroy-Caradoc	\$ 38,006	Mid
Guelph	\$ 38,729	Mid
Southgate	\$ 38,881	Mid
Ottawa	\$ 40,104	Mid
Mapleton	\$ 40,427	Mid
Norfolk	\$ 40,580	Mid
Brantford	\$ 41,668	Mid
Barrie	\$ 41,972	Mid
Minto	\$ 42,252	Mid
New Tecumseth	\$ 42,600	Mid
Orangeville	\$ 42,894	Mid
Greater Sudbury	\$ 42,925	Mid

Volume Meter Size	Commercial 10,000 m <sup>3</sup> 2"	Commercial 10,000 m <sup>3</sup> Ranking
Markham	\$ 44,680	High
Waterloo	\$ 45,181	High
Bracebridge	\$ 45,273	High
Gravenhurst	\$ 45,273	High
Huntsville	\$ 45,273	High
The Blue Mountains	\$ 45,459	High
Vaughan	\$ 45,682	High
Newmarket	\$ 45,916	High
Lincoln	\$ 46,577	High
Wellington North	\$ 47,194	High
South Bruce Peninsula	\$ 47,389	High
Richmond Hill	\$ 47,424	High
Woolwich	\$ 48,212	High
Wilmot	\$ 48,862	High
North Dumfries	\$ 49,292	High
Aurora	\$ 49,500	High
Cambridge	\$ 49,830	High
Meaford	\$ 51,378	High
Centre Wellington	\$ 51,666	High
Welland	\$ 51,681	High
East Gwillimbury	\$ 52,158	High
Georgina	\$ 53,673	High
Springwater	\$ 54,651	High
Wellesley	\$ 54,816	High
Chatsworth	\$ 55,135	High
Whitchurch-Stouffville	\$ 55,246	High
Kitchener	\$ 56,591	High
Guelph-Eramosa	\$ 59,460	High
Parry Sound	\$ 60,469	High
Lambton Shores	\$ 62,857	High
Central Elgin	\$ 62,987	High
King	\$ 64,042	High
Greenstone	\$ 64,704	High
Prince Edward County	\$ 66,352	High
Middlesex Centre	\$ 69,991	High

The 2020 BMA Municipal Study indicates that annual user fees for water and wastewater services in Cornwall are among the lowest when compared to the other participating municipalities.

#### Commercial

- Cornwall: \$11,677
- BMA average: \$37,812
- BMA median: \$36,412