

2022

WATER AND WASTEWATER BUDGET PRESENTATION

November 29, 2021



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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
- Sustainable Financial Planning
- Operating and Capital Financial Summary
- 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.

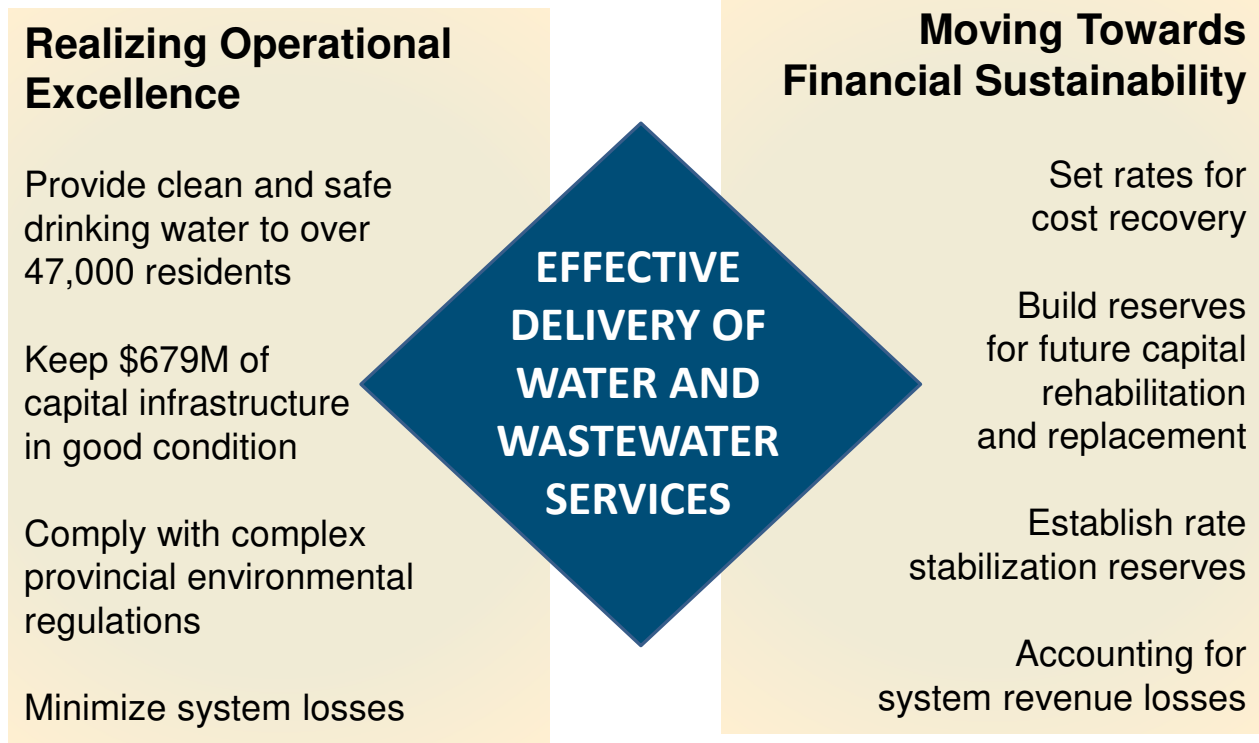


Alignment to Strategic Plan

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.

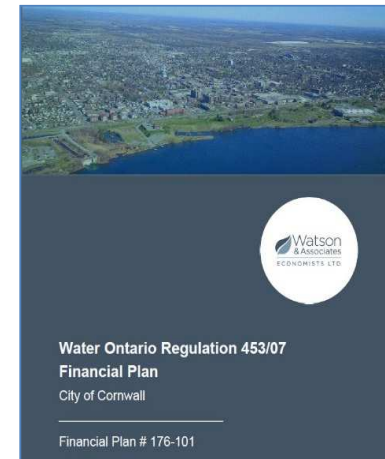
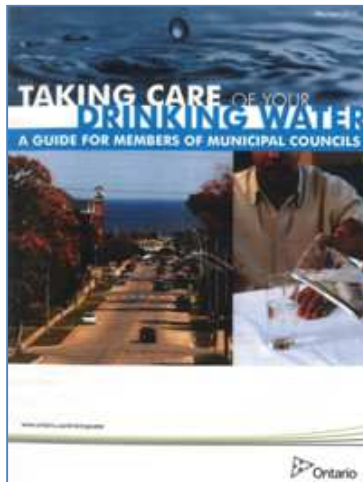
2022 Water and Wastewater

Goals and Objectives of Financial Sustainability Plan



Compliance

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



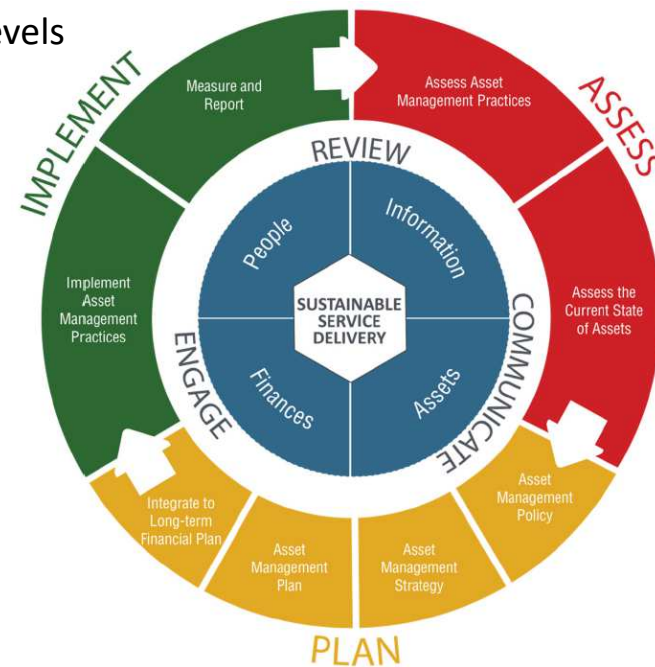
Infrastructure/Asset Management

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 2022 proposed capital projects related to current infrastructure replacement total \$9,285,000 which is only 1.37% 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, 2022

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, 2024

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, 2025

Municipalities to have an approved AMP for all municipal infrastructure assets that builds upon the requirements set out in 2024. 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. An Asset Management Policy update will also be required.

Water Accomplishments

- Watermains replaced or relined
 - 2022, 2.9km (Proposed)
 - 2021, 2.8km
 - 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 (13 Straight Years)
- Raw Water Intake Redundancy EA – Ongoing
 - Council Presentation on November 1st, 2021
 - Preferred Alternative Identified

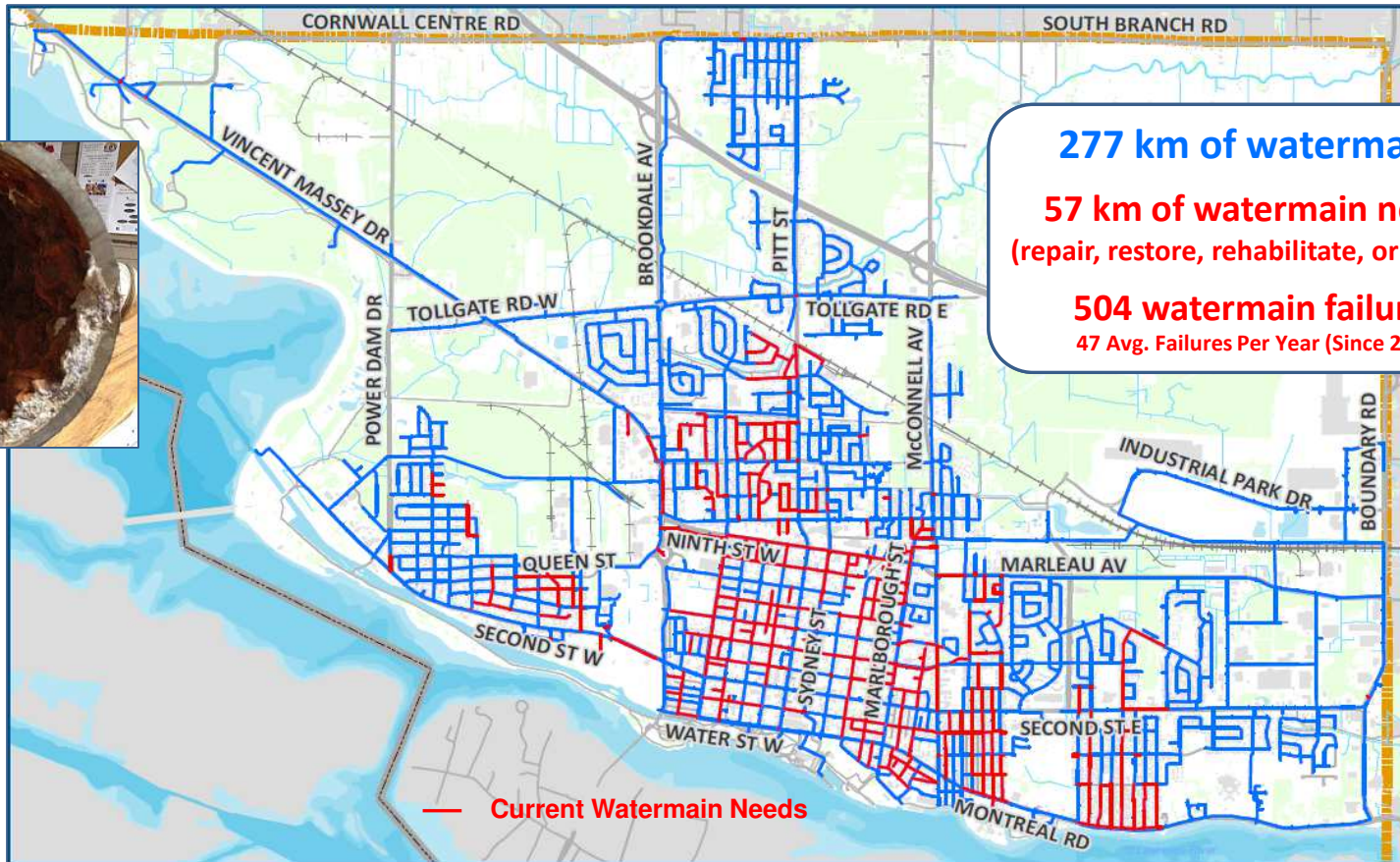


Water System Challenges

- 35 Watermain breaks in 2021 YTD
(Vincent Massey Dr., McConnell Av., Second St. E.)
- “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

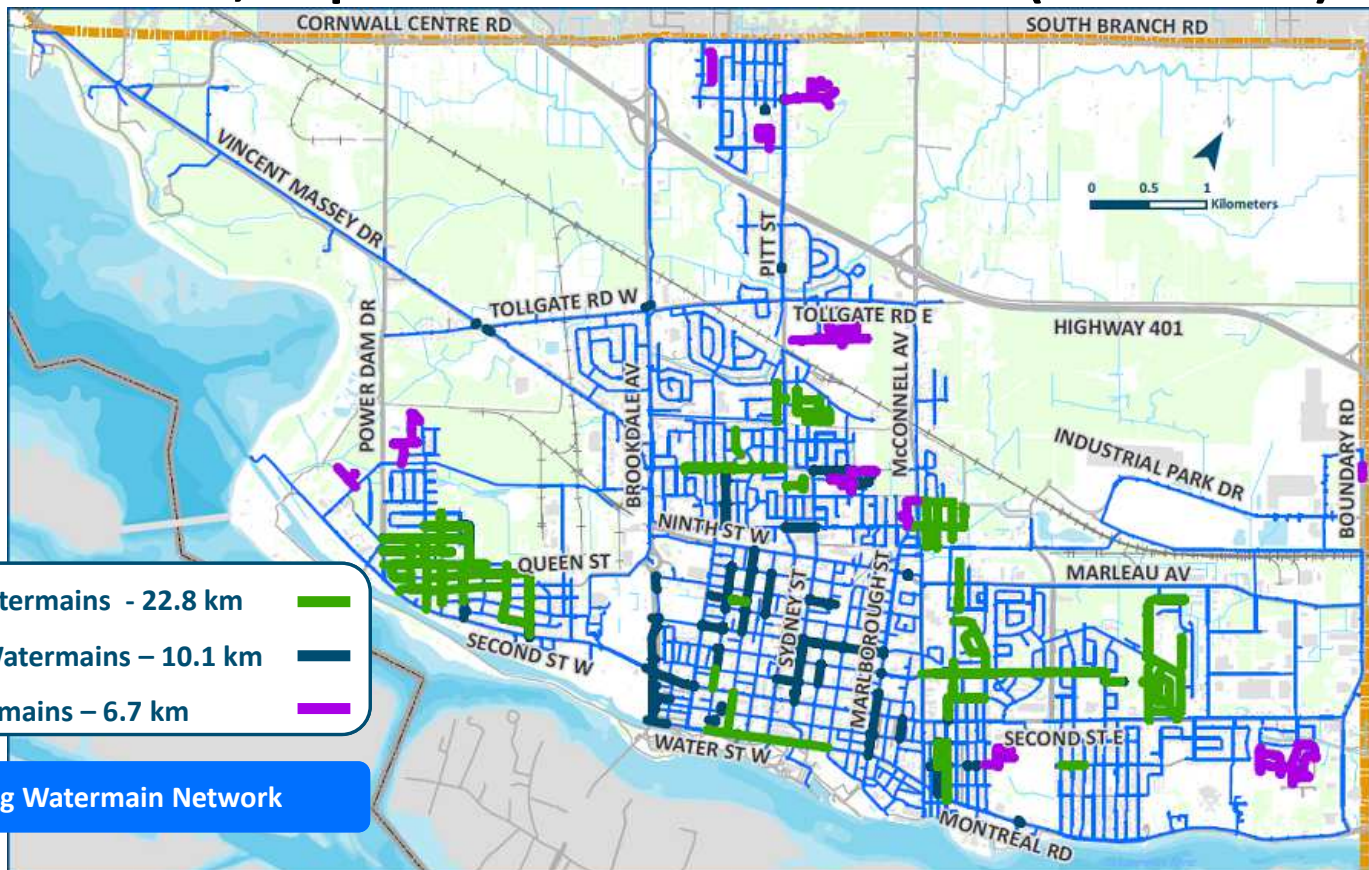


277 km of watermains
57 km of watermain needs
(repair, restore, rehabilitate, or replace)
504 watermain failures
47 Avg. Failures Per Year (Since 2005)

- Watermain failures as of November 12th, 2021
- 2021 watermain relining projects reflected only. Next map/database update to be completed following conclusion of 2021 construction season

Water Distribution Network

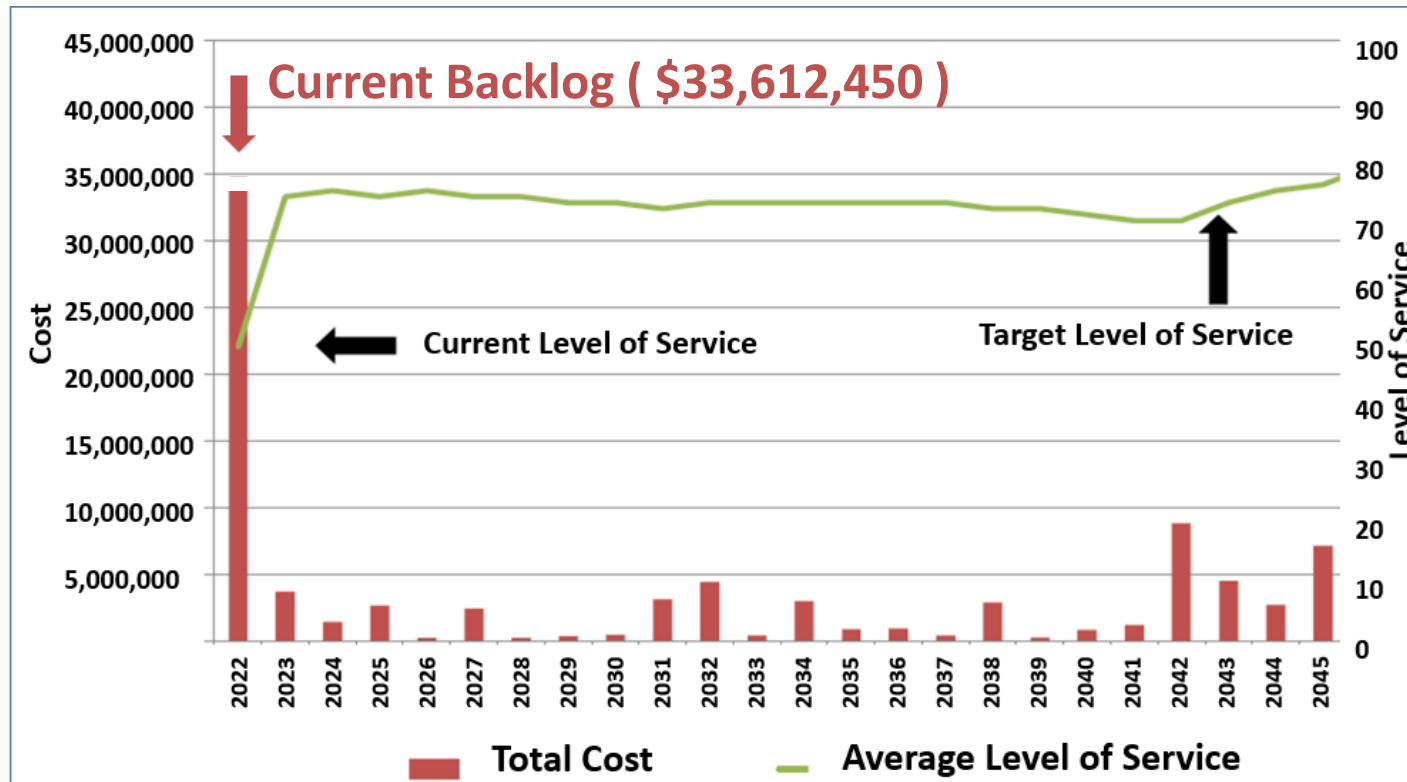
Relined, Replaced & New Watermains (2013-2021)



- Next map/database update to be completed following conclusion of 2021 construction season
- 2021 watermain relining projects reflected only
- New watermains added in new subdivisions

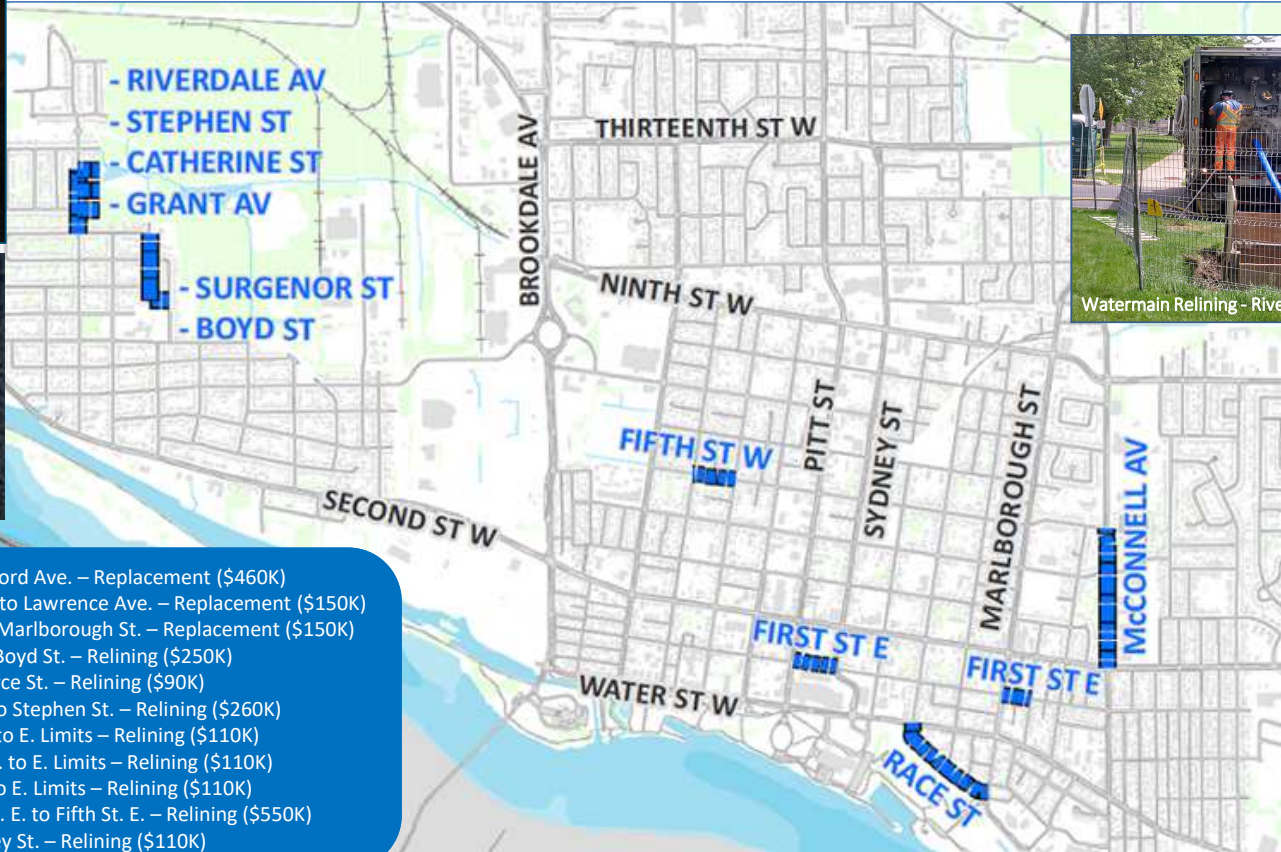
Watermain Rehabilitation

Water Network Budget and Level of Service



- Next database update to be completed following conclusion of 2021 construction season
- Backlog has been updated to reflect 2021 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



- 1) **Fifth St. W.** from York St. to Bedford Ave. – Replacement (\$460K)
- 2) **First St. E.** from Marlborough St. to Lawrence Ave. – Replacement (\$150K)
- 3) **Race St.** from Water Street E. to Marlborough St. – Replacement (\$150K)
- 4) **Surgenor St.** from Charles St. to Boyd St. – Relining (\$250K)
- 5) **Boyd St.** from Surgenor St. to Joyce St. – Relining (\$90K)
- 6) **Riverdale Ave.** from Charles St. to Stephen St. – Relining (\$260K)
- 7) **Stephen St.** from Riverdale Ave. to E. Limits – Relining (\$110K)
- 8) **Catherine St.** from Riverdale Ave. to E. Limits – Relining (\$110K)
- 9) **Grant Ave.** from Riverdale Ave. to E. Limits – Relining (\$110K)
- 10) **McConnell Ave.** from Second St. E. to Fifth St. E. – Relining (\$550K)
- 11) **First St. E.** from Pitt St. to Sydney St. – Relining (\$110K)



The project information sheet can be found on pg. **32** of the budget book.

Watermain System Growth

Watermain Extensions / Connections

Baldwin Avenue Watermain Extension

- Extension of 150mm \varnothing of watermain



Lemay Street Phase 4 - Watermain Extension

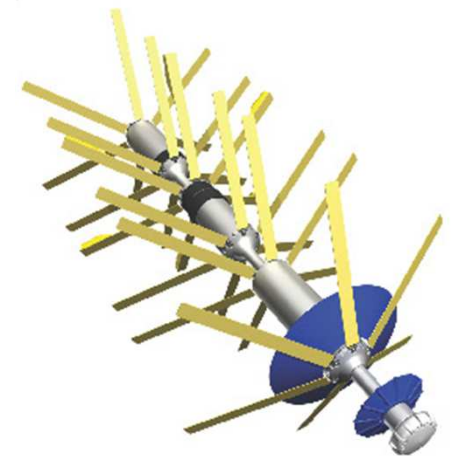
- Extension of 200mm \varnothing watermain



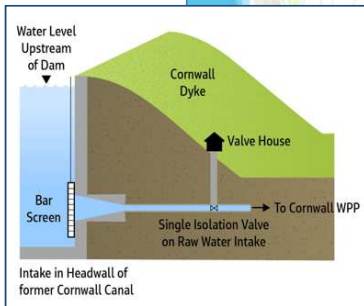
The project information sheet can be found on pg. 33 of the budget book.

1050mm Ø Raw Water Intake

Pipe Wall Condition Assessment



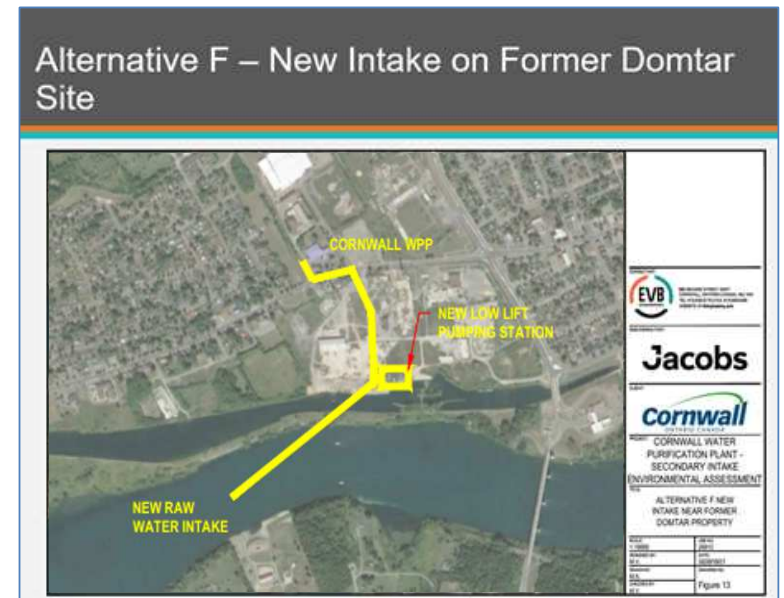
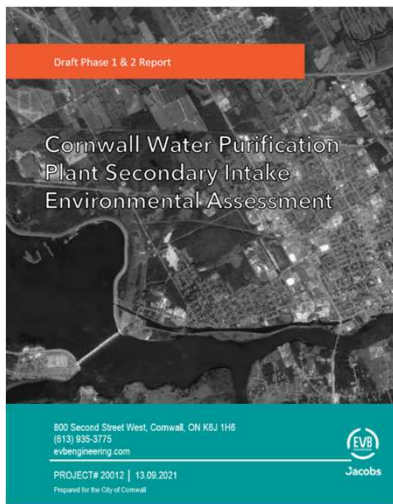
Free-Swimming Pipeline Condition Assessment Tool




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

1050mm Ø Raw Water Intake Redundancy Technical Studies

- Preferred Alternative Options for New Secondary Intake



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

Water Purification Plant Upgrades / Process Improvements

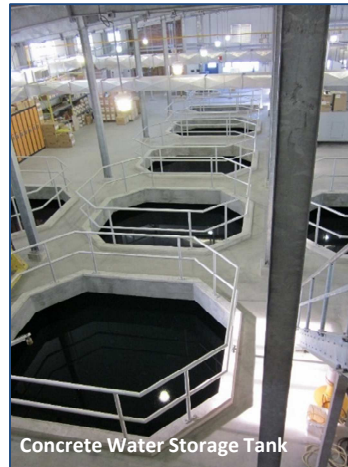
- Backwash Pump Replacement
- Concrete Water Storage Tanks Condition Assessment
- High Lift Pump Replacement



1956 Backwash Pump Motor



1956 Backwash Pump to be Replaced



Concrete Water Storage Tank



Inside of Concrete Water Storage Tank



High Lift Pump - Centrifugal



High Lift Pump - Vertical

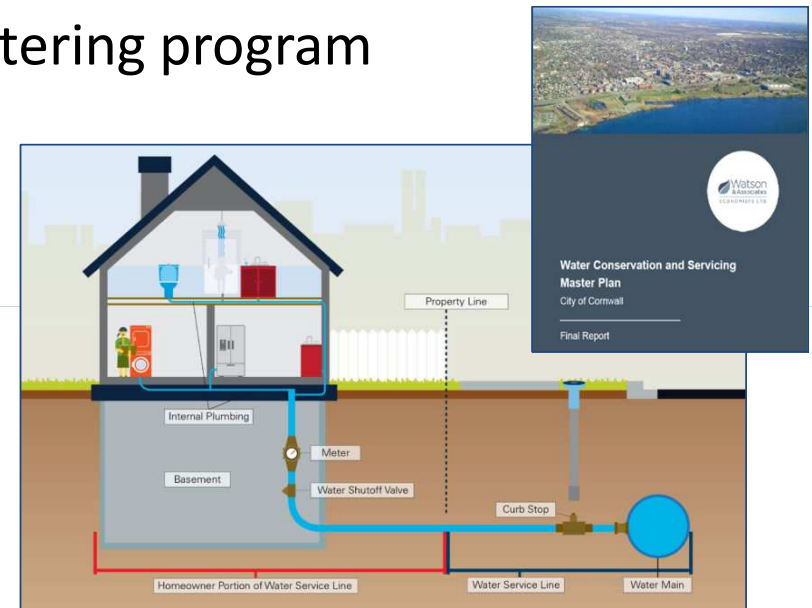


The project information sheet can be found on pg. 36, 37, and 38 of the budget book.

Water Distribution Network

Water Meter Implementation - Project Management Services

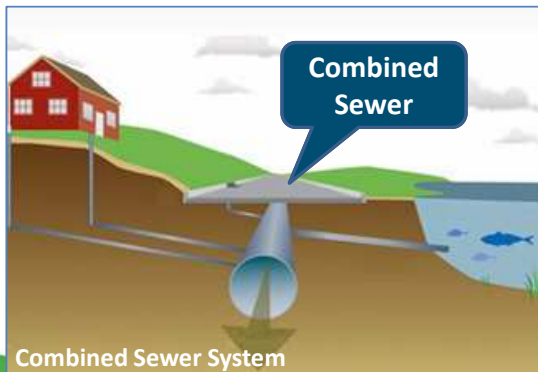
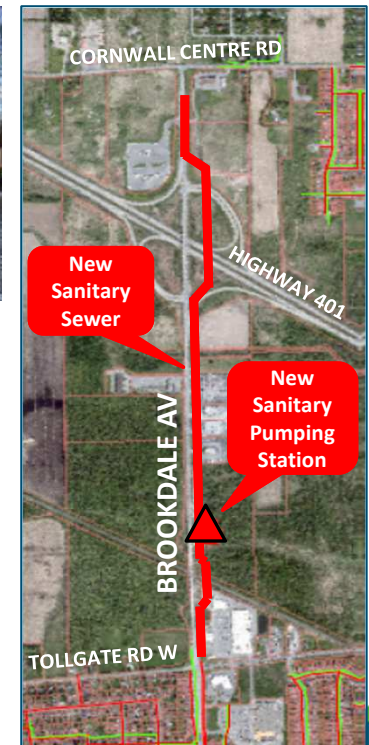
- Provide recommendations for universal installation of water meters
- Implementation of a state-of-the-art metering program
 - Advanced Metering Infrastructure (AMI)
 - Customer Information System (CIS)
 - Meter Data Management (MDM)
 - Meter Installation Software (MIS)
- Oversee Preparation of Specifications, Procurement Documents, Contract Administration, and Implementation Support



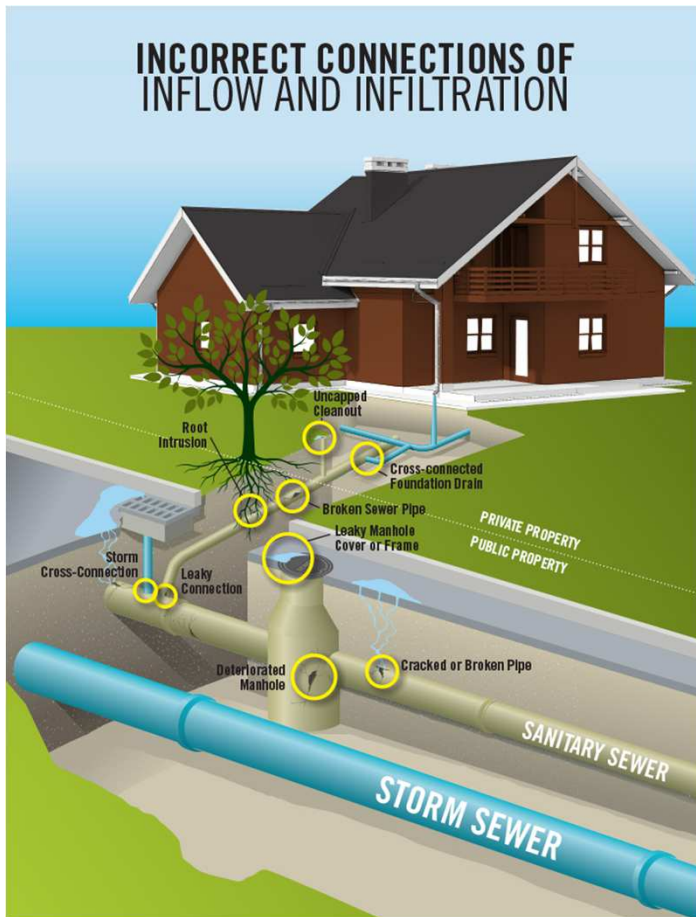
The project information sheet can be found on pg. 39 of the budget book.

Wastewater Accomplishments

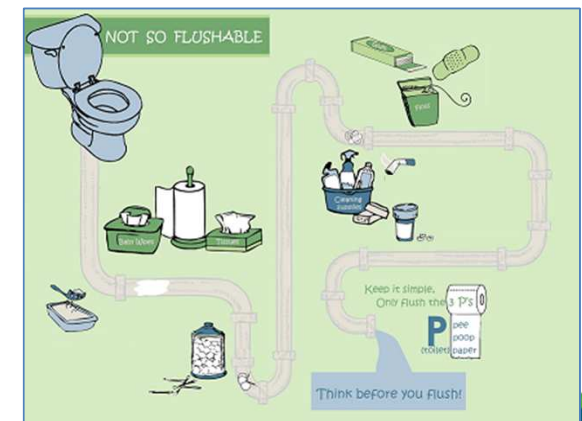
- Expansion of Sewer Network to Service Brookdale Ave. North
- Ongoing optimization of enhanced secondary Waste Water Treatment Plant (WWTP)
- MECP Approval of WWTP Capacity
 - 55,000 m³/day upgraded to 65,000 m³/day (Average Daily Flow)
- Ongoing Combined Sewer Separation
 - In order to achieve fewer Combined Sewer Overflows (CSOs)



Wastewater System Challenges

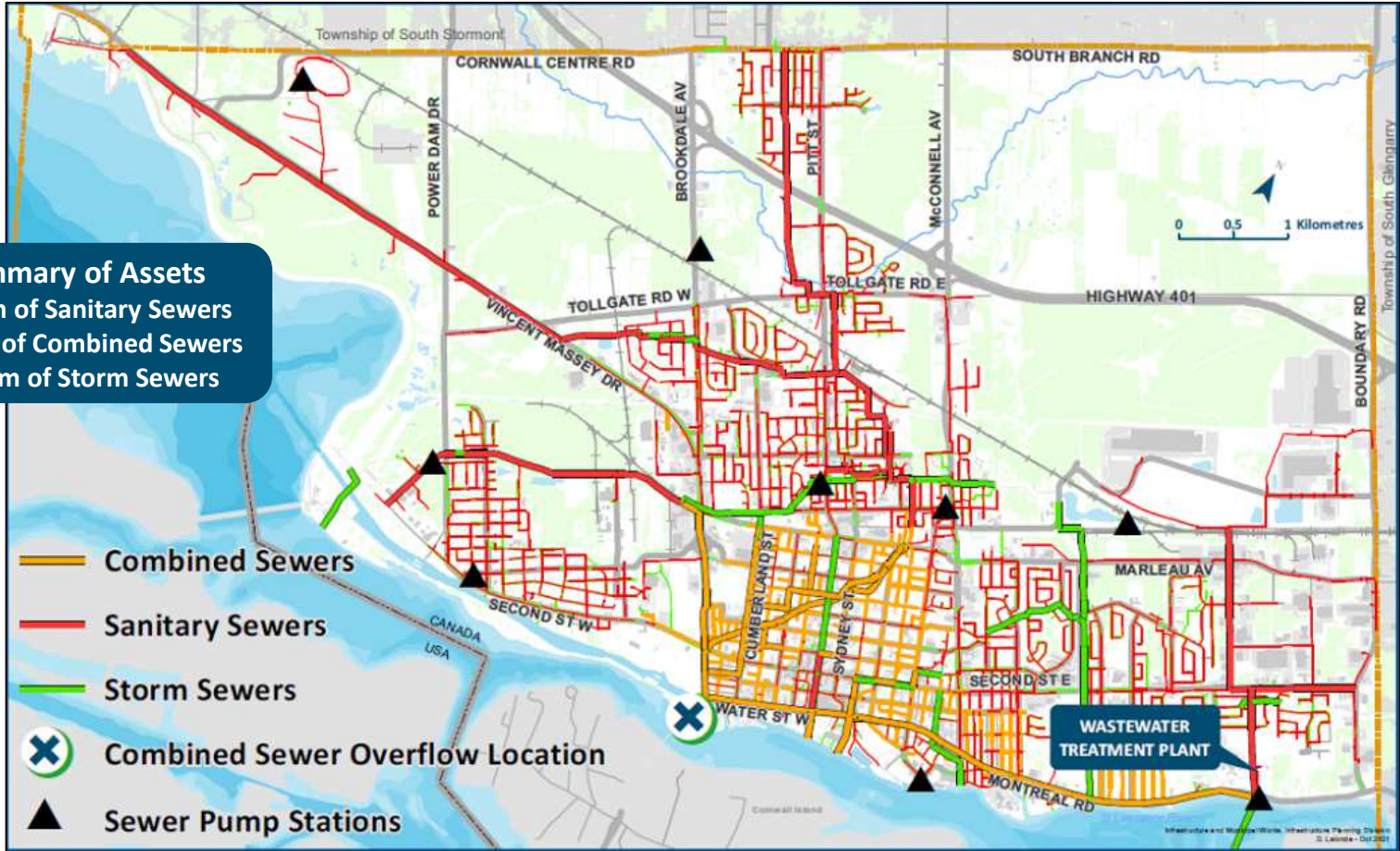


- 64 sewer lateral repairs in 2021 YTD
- Fats, oils, grease and flushables
- Climate change, flood risk reduction
- Combined Sewer Overflows (CSOs)
- Infiltration / inflow
- Sewer separation
- Financial sustainability
- Aging infrastructure
- Odour control



Wastewater Collection Network

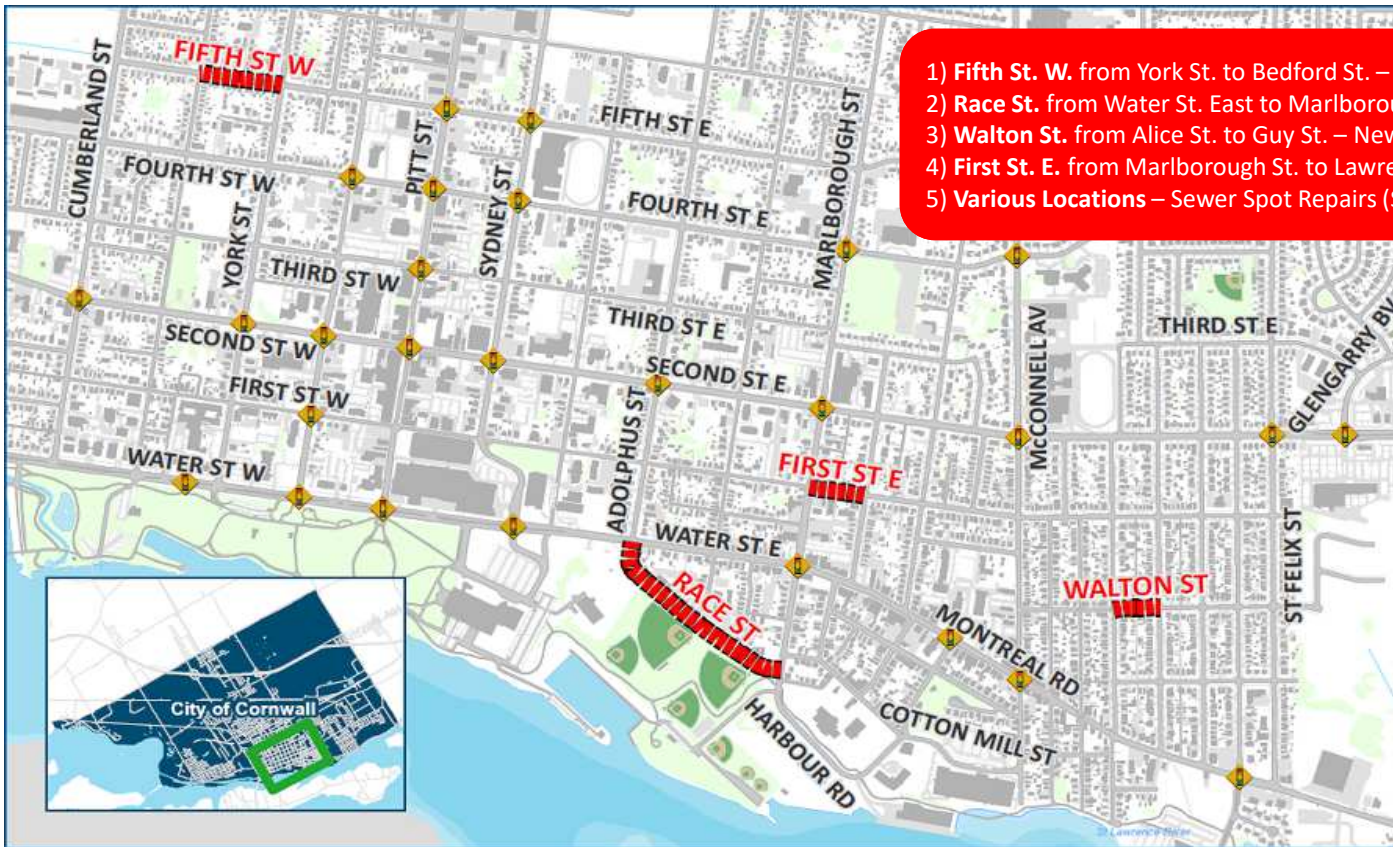
Summary of Assets
 205 km of Sanitary Sewers
 57 km of Combined Sewers
 147 km of Storm Sewers



- Next map/database update to be completed following conclusion of 2021 construction season


Sewer Network Improvements

Various Locations

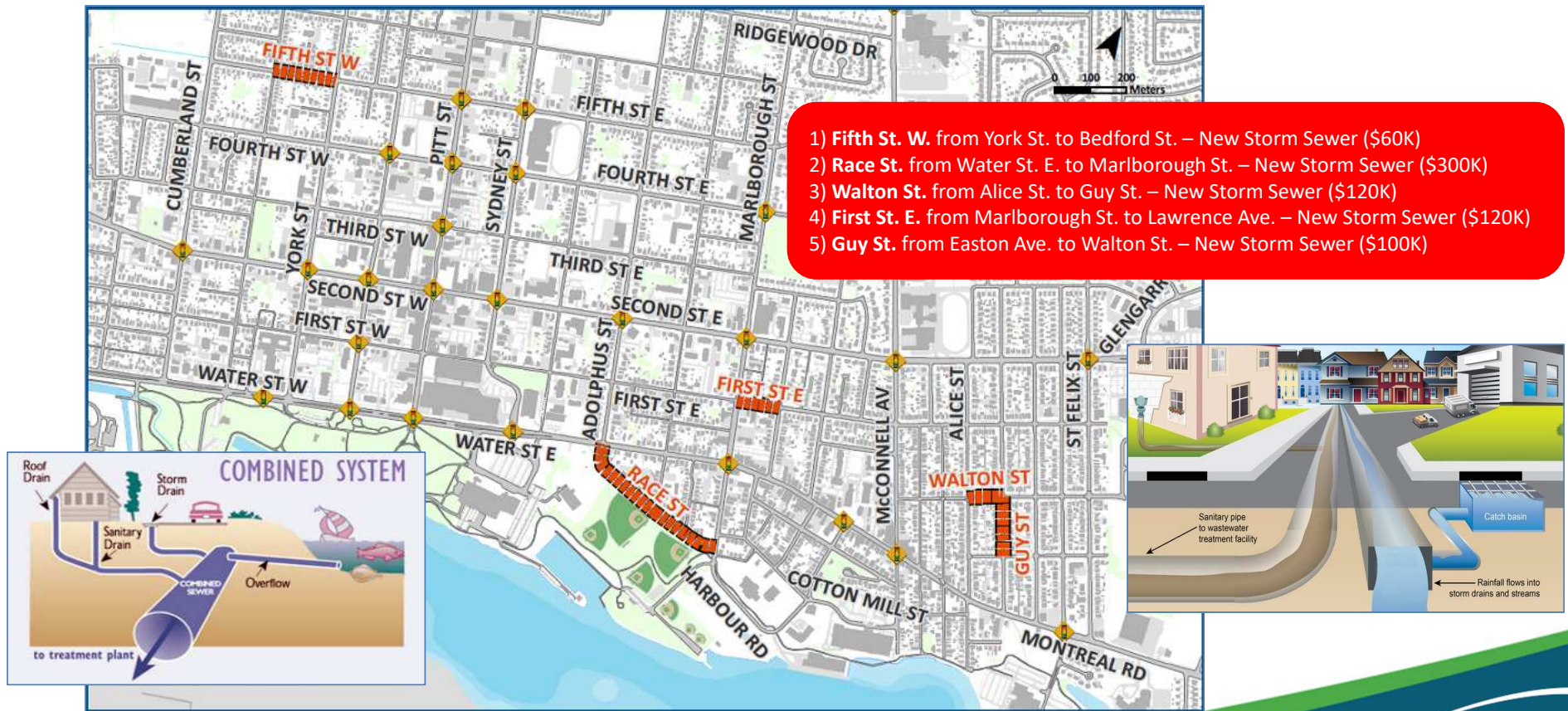



- 1) Fifth St. W. from York St. to Bedford St. – New Sanitary Sewer (\$220K)
- 2) Race St. from Water St. East to Marlborough St. – New Sanitary Sewer (\$480K)
- 3) Walton St. from Alice St. to Guy St. – New Sanitary Sewer (\$120K)
- 4) First St. E. from Marlborough St. to Lawrence Ave. – New Sanitary Sewer (\$130K)
- 5) Various Locations – Sewer Spot Repairs (\$100K)



 The project information sheet can be found on 40 budget book.

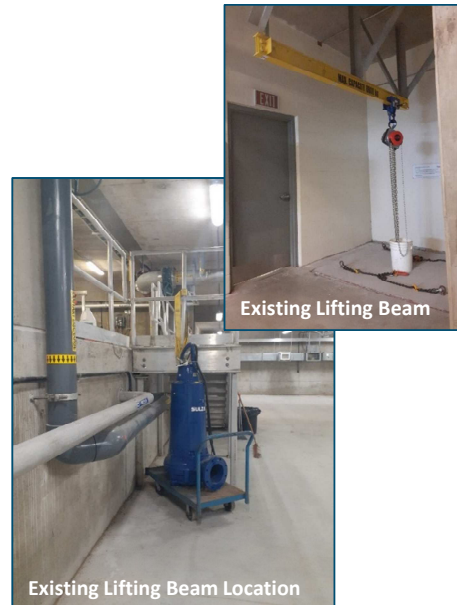
Combined Sewer Separation Various Locations



 The project information sheet can be found on pg. 41 of the budget book.

Waste Water Treatment Plant

- Odour Control System for Dewatering Facility
- Install New Lifting Beams in Various Locations at WWTP
- Waste Gas Compressor Lubrication System Replacement



The project information sheet can be found on pg. **42**, **43** and **44** of the budget book.

Waste Water Treatment Plant

Security Fence for Future WWTP Expansion Area and Pump Station

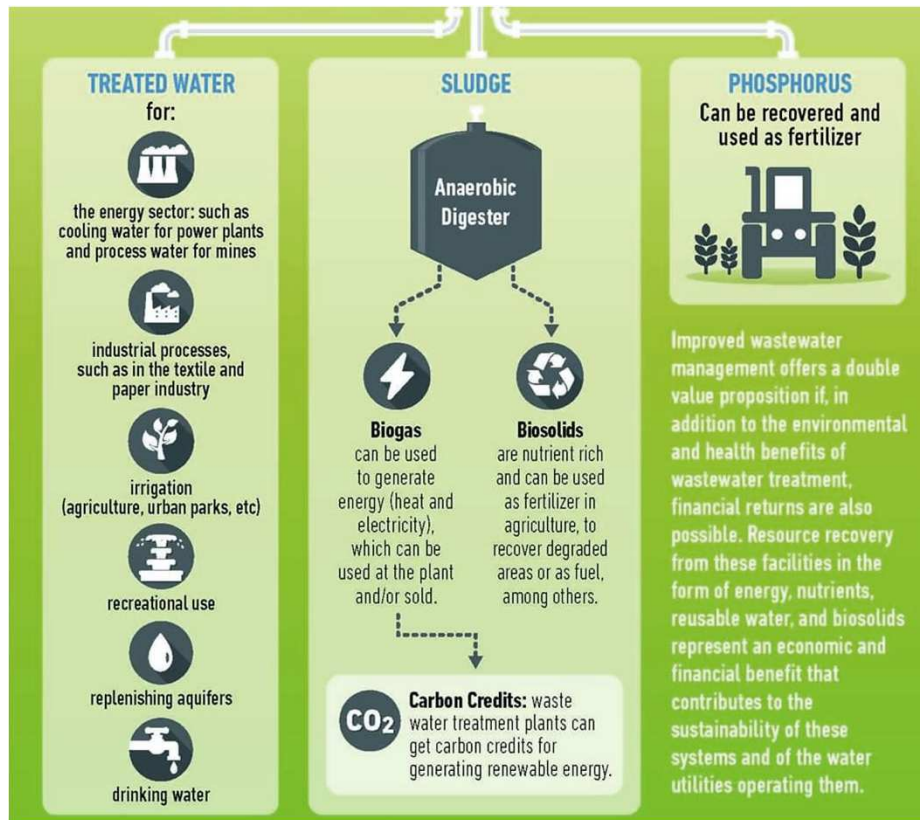
- Security Fence along Perimeter of Land for Future Plant Expansion
- Security Fence at the Raw Sewage Pumping Station




The project information sheet can be found on pg. 45 of the budget book.

Waste Water Treatment Plant

- Preliminary Design for Conversion of WWTP to Resource Recovery Facility

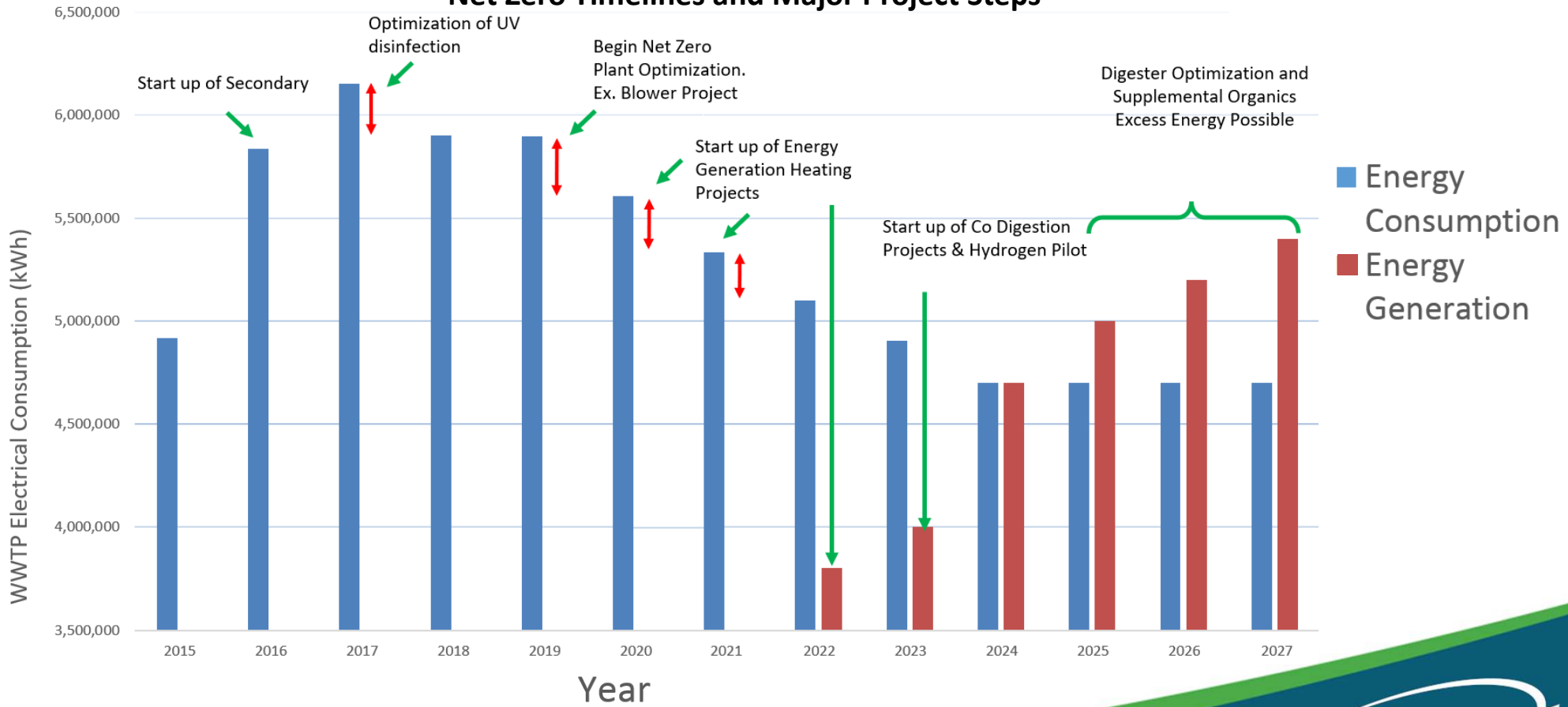


To reduce greenhouse gas emissions and promote resource recovery, many wastewater treatment operators are retrofitting existing plants to implement new technologies for energy, nutrient and carbon recovery.

 The project information sheet can be found on pg. 46 of the budget book.

Wastewater Treatment Plant

Net Zero Timelines and Major Project Steps

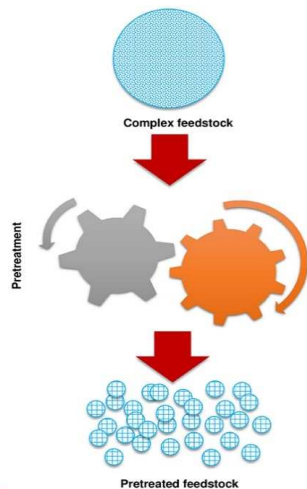


Resource Recovery Facility

Organics

2021-2023

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



Co-Digestion

2021-2023

- Capacity
- Benefits
- Partners
- Funding



Products

2023-2025

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

Joint Infrastructure

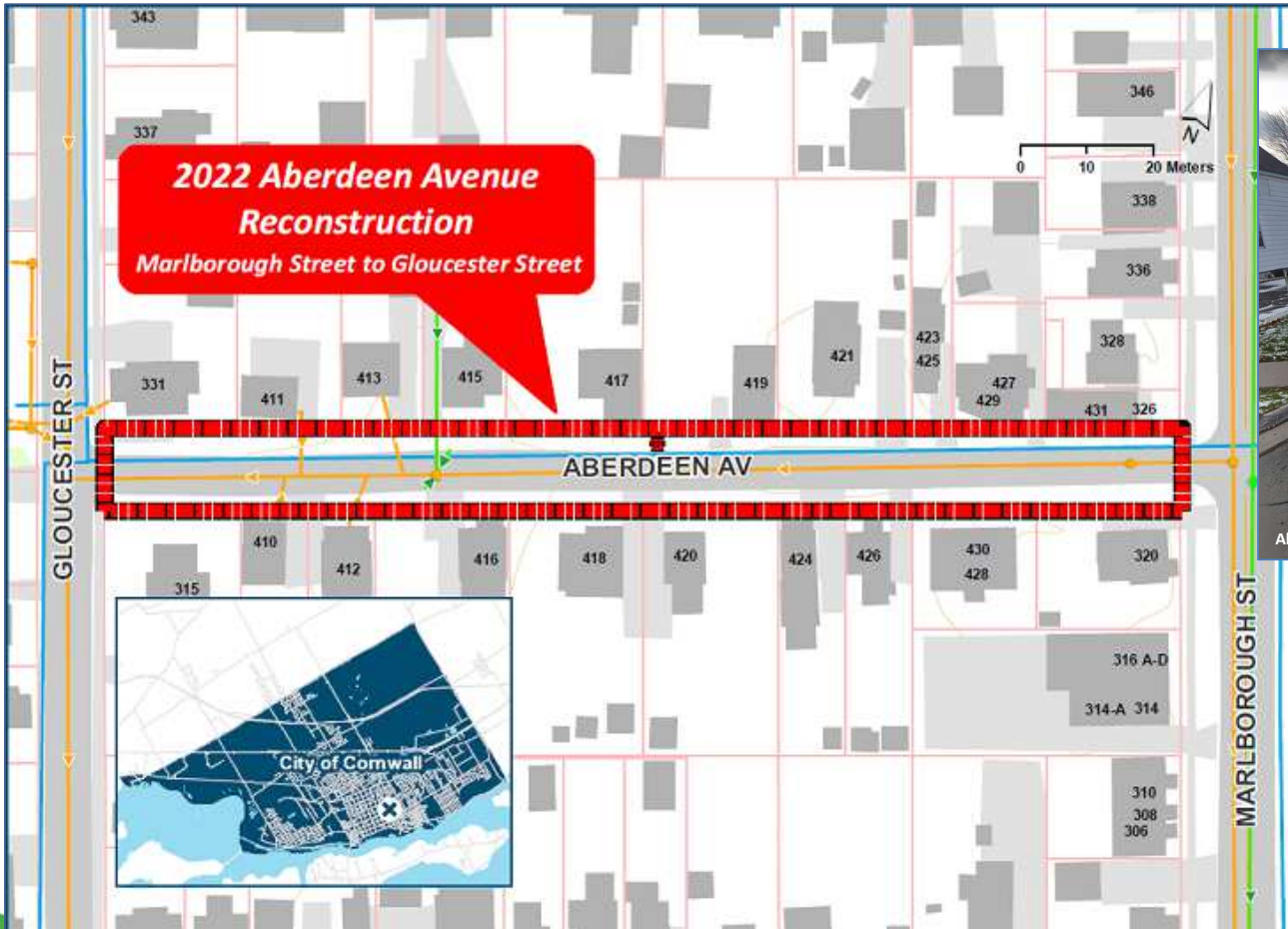
Sydney St. Reconstruction (Seventh St. E. to Ninth St. E.)



The project information sheet can be found on pg. 47 of the budget book.

Joint Infrastructure

Aberdeen Ave. Reconstruction (Marlborough St. to Gloucester St.)



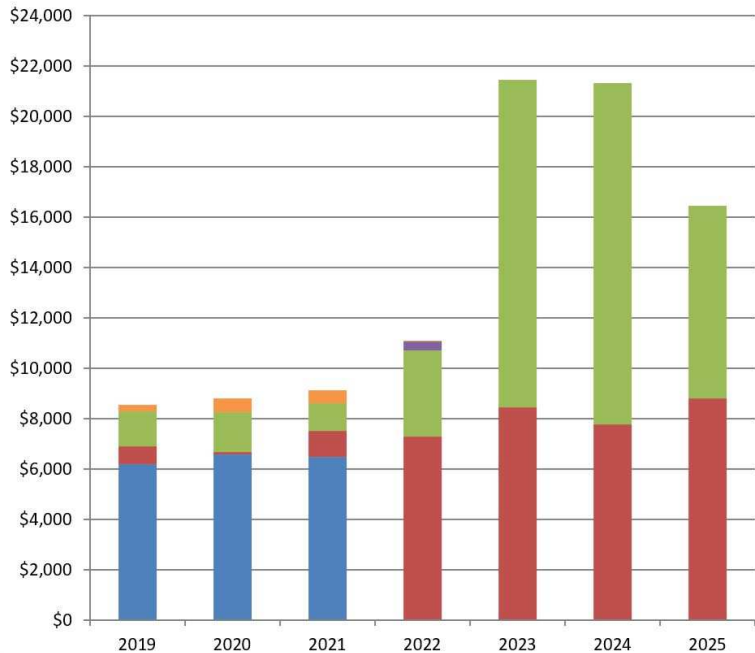
Aberdeen Av. looking west from Marlborough St.



The project information sheet can be found on pg. 48 of the budget book.

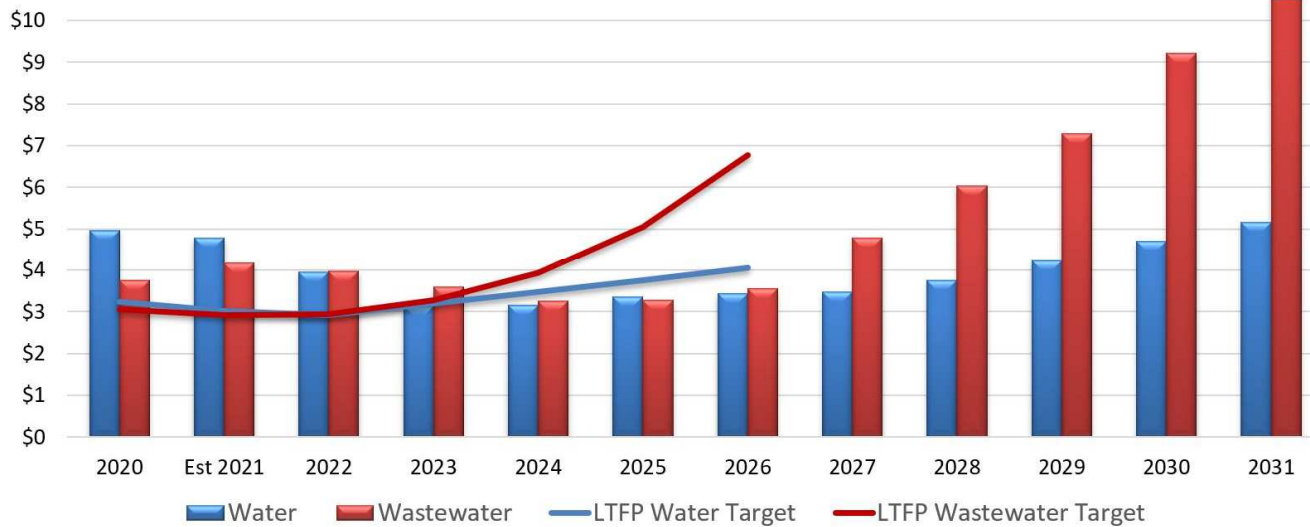
Capital Planning

The following charts illustrate capital funding allocations (in the thousands of dollars) from the 2019, 2020, and 2021 Budgets compared to the 2022 Submission and the plan for 2023, 2024, and 2025.



	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>
Water Distribution	\$2,130	\$2,550	\$2,700	\$2,850	\$5,900	\$5,950	\$8,000
Water Purification Plant	904	750	900	2,350	9,250	9,250	1,350
	\$3,034	\$3,300	\$3,600	\$5,200	\$15,150	\$15,200	\$9,350
Wastewater Collection Program	\$1,005	\$1,050	\$1,050	\$1,050	\$1,100	\$1,125	\$1,150
Combined Sewer Separation	470	700	700	700	725	750	750
Wastewater Treatment Plant	820	975	620	1,285	1,590	1,600	2,550
Flood Reduction Initiatives	0	0	0	0	0	0	0
Brookdale N. Channel Bridge	0	0	0	0	0	0	0
	\$2,295	\$2,725	\$2,370	\$3,035	\$3,415	\$3,475	\$4,450
Joint Infrastructure Projects	\$3,218	\$2,800	\$3,150	\$2,850	\$2,900	\$2,650	\$2,675
Total Project Costs	\$8,547	\$8,825	\$9,120	\$11,085	\$21,465	\$21,325	\$16,475
Water Project Costs	\$4,333	\$4,700	\$5,250	\$6,650	\$16,600	\$16,525	\$10,687
Wastewater Project Costs	\$4,214	\$4,125	\$3,870	\$4,435	\$4,865	\$4,800	\$5,788

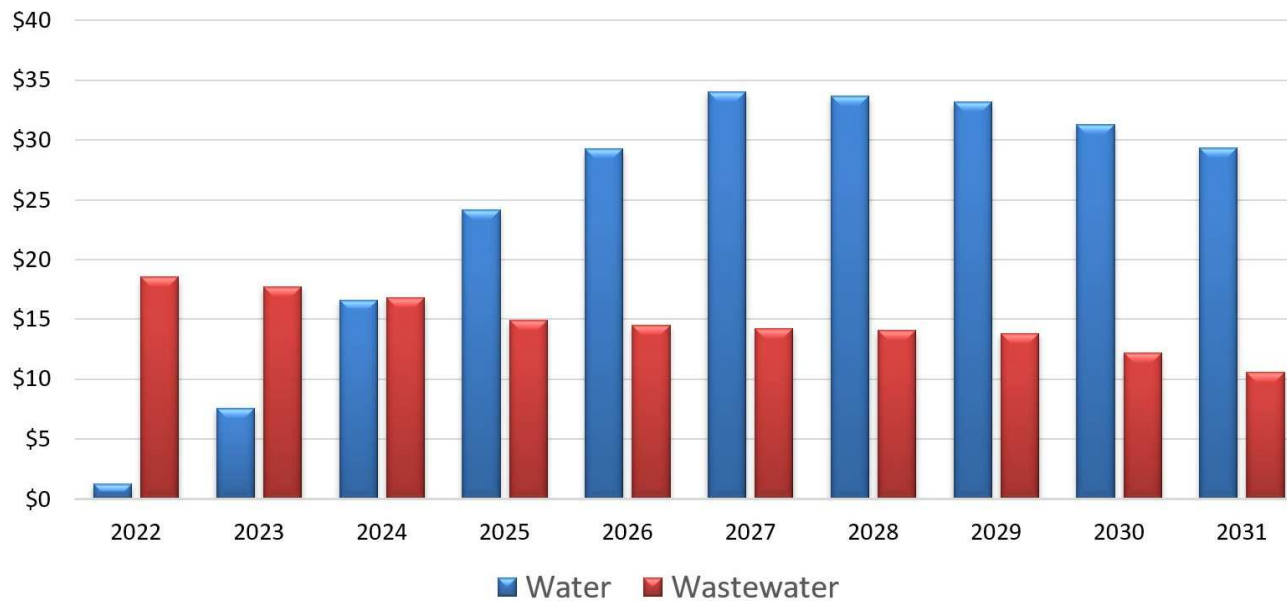
Water Works and Wastewater Works Reserves



This chart illustrates reserve balances from the City's Long-Term Financial Plan compared to historical balances from 2020, the projected 2021 year-end balance as well as the ten-year (2022-2031) forecasted balance for the Water Works and the Wastewater Works Reserves.

*Dollars rounded to millions

Long-Term Borrowing (debt)



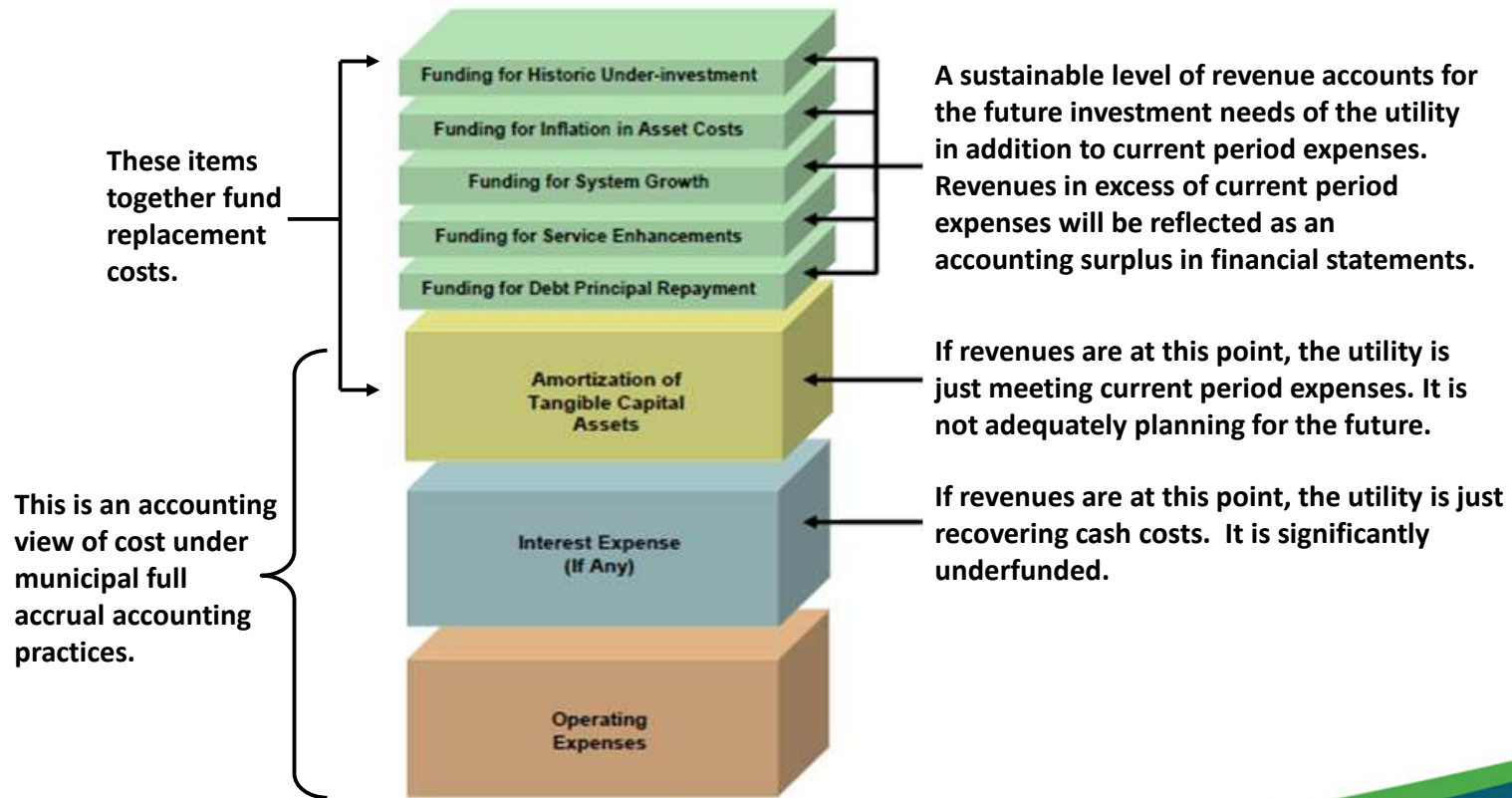
*Dollars rounded to millions

This chart illustrates the ten-year (2022-2031) 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.

In 2022, the City will borrow for its 2021 York Street joint infrastructure project and the Brookdale North Sewer project which will be complete.

In 2022, the City has budgeted to borrow for the reconstruction of Sydney Street from Seventh St. E. to Ninth St. E. be financed at \$2.1 million and the project management services for the implementation of water meters be financed at \$1.3 million.

Sustainable Financial Planning



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

Operating and Capital Financial Summary

	2021	2022	\$	%	Plan		
	Budget	Submission	Variance	Variance	2023	2024	2025
EXPENDITURES							
Salaries and Benefits	\$4,634,591	\$4,792,674	\$158,083	3.41%	\$4,912,491	\$5,035,303	\$5,161,186
Purchase of Goods	\$2,879,951	\$2,996,193	\$116,242	4.04%	\$3,026,155	\$3,056,416	\$3,086,981
Services & Rent	\$2,120,307	\$2,266,822	\$146,515	6.91%	\$2,334,827	\$2,404,871	\$2,477,018
Financial	\$238,966	\$351,441	\$112,475	47.07%	\$361,984	\$372,844	\$384,029
Contribution to Reserves	\$250,000	\$6,223,643	\$5,973,643	2,389.46%	\$7,475,194	\$7,906,112	\$8,071,792
Total Expenditures	\$10,123,815	\$16,630,773	\$6,506,958	64.27%	\$18,110,651	\$18,775,547	\$19,181,005
REVENUE							
User Fees & Misc Revenue	\$379,300	\$287,300	(\$92,000)	(24.26%)	\$287,300	\$287,300	\$287,300
Net Operating Expenditures	\$9,744,515	\$16,343,473	\$6,598,958	67.72%	\$17,823,351	\$18,488,247	\$18,893,705
Financing LTD Principal & Interest	1,849,939	2,225,627	\$375,688	20.31%	2,585,100	3,189,300	3,882,000
Corporate Costs	\$1,063,319	\$1,110,144	\$46,825	4.40%	\$1,143,448	\$1,177,752	\$1,213,084
Insurance Premiums	\$205,763	\$262,529	\$56,766	27.59%	\$288,782	\$317,660	\$349,426
Operating Water & Wastewater Billings	\$12,863,536	\$19,941,773	\$7,078,237	55.03%	\$21,840,681	\$23,172,959	\$24,338,215
Gross Capital	\$9,120,000	\$11,085,000	\$1,965,000	21.55%	\$21,465,000	\$21,325,000	\$16,475,000
Capital Funding							
Government Grants	\$0	\$350,000	\$350,000	100.00%	\$0	\$0	\$0
Financing	\$1,100,000	\$3,400,000	\$2,300,000	209.09%	\$13,000,000	\$13,550,000	\$7,675,000
Development Charges	\$500,000	\$29,400	(\$470,600)	(94.12%)	\$0	\$0	\$0
Water Works Reserve	\$900,000	\$3,005,600	\$2,105,600	233.96%	\$4,650,000	\$4,300,000	\$4,350,000
Wastewater Works Reserve	\$120,000	\$4,300,000	\$4,180,000	3,483.33%	\$3,815,000	\$3,475,000	\$4,450,000
Capital Water & Wastewater Billings	\$6,500,000	\$0	(\$6,500,000)	(100.00%)	\$0	\$0	\$0
WATER AND WASTEWATER BILLINGS	\$19,363,536	\$19,941,773	\$578,237	2.99%	\$21,840,681	\$23,172,959	\$24,338,215

The Water Financial Plan recommends an annual increase of 6.08%.

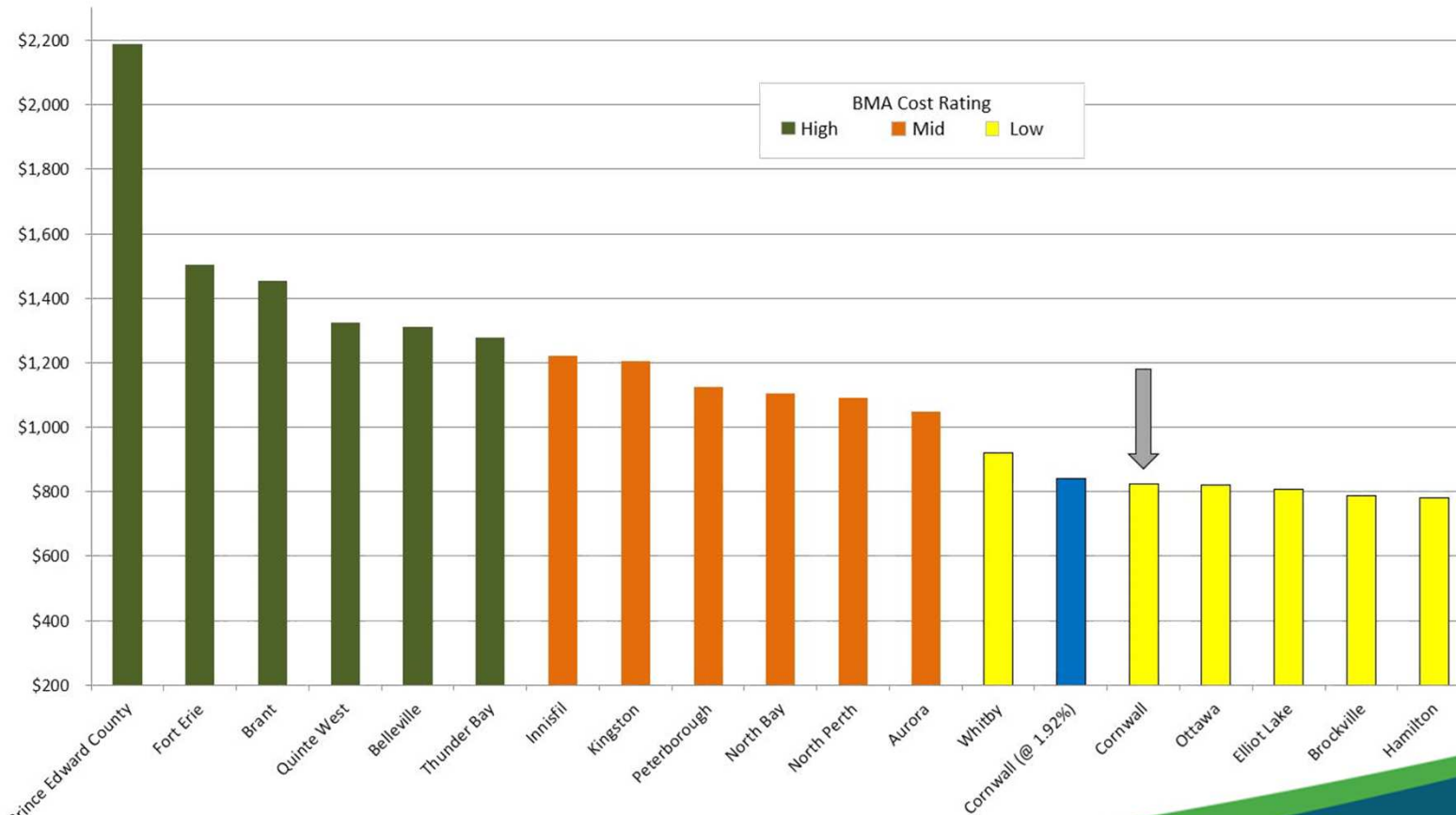
2022 rates from the Water Conservation and Servicing Master Plan were forecasted at 5% for flat (per fixture) customers and 10% for metered (consumptive) customers.

The 2022 Budget for Water and Wastewater billings decreased by \$600,000 when compared to the 2022 Plan.

- \$200,000 Water Works Reserve
- \$400,000 Wastewater Works Reserve

Municipal Comparators

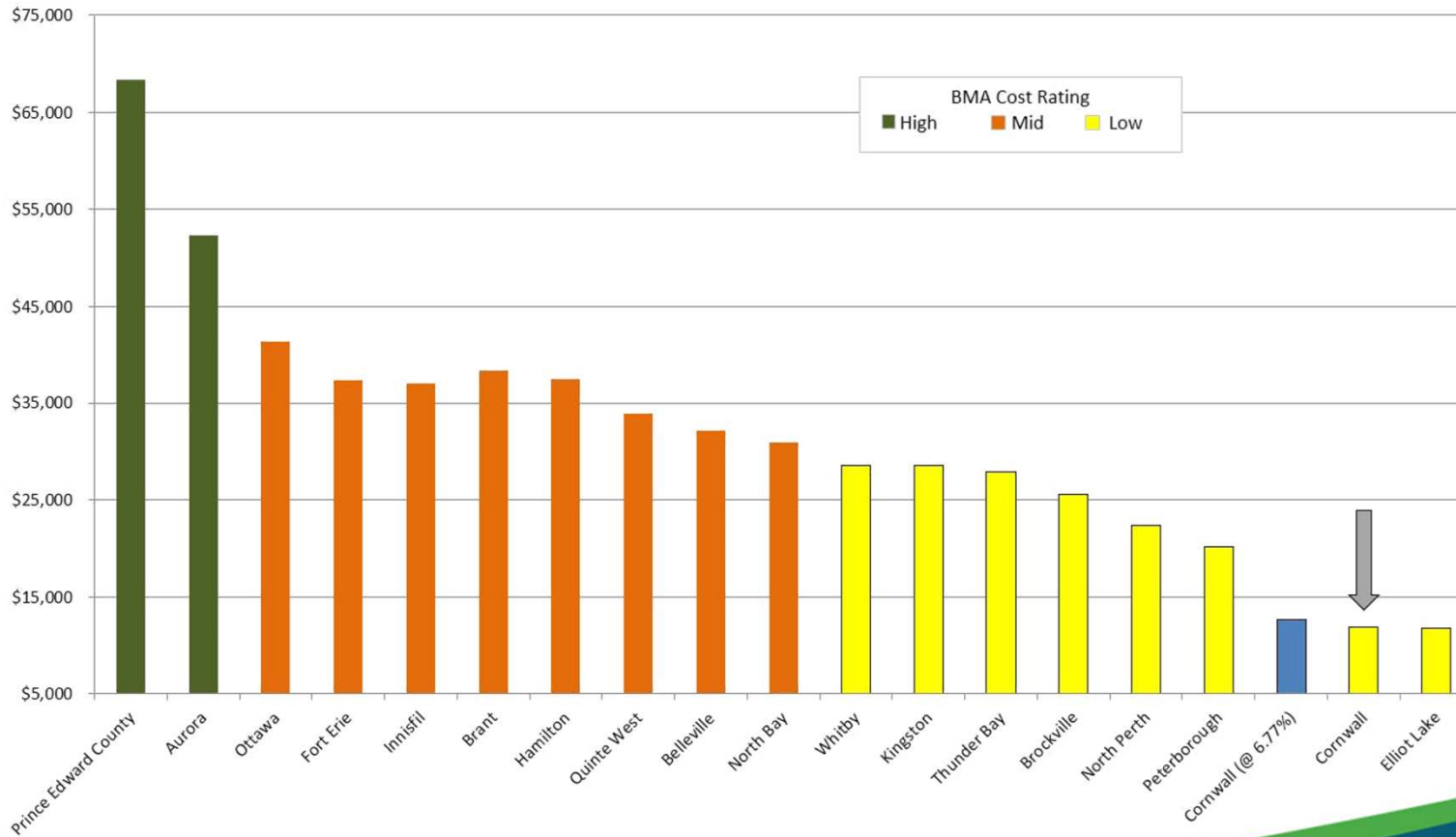
Residential Water / Wastewater Costs per 200m³



* Source: 2021 Draft BMA Study (see Appendix A)

Municipal Comparators

Commercial Water / Wastewater Costs per 10,000m³



* Source: 2021 Draft BMA Study (see Appendix B)

Budget Summary

- The 2022 budget has been prepared with an overall budget increase of 2.99%
 - Water budget represents a 4.02% increase (\$340,276)
 - Wastewater budget represent a 2.18% increase (\$237,961)
- The rate for flat (per fixture) customers will increase by 1.92%
- The rate for metered (consumptive) customers will increase by 6.77%

For a residential property, in 2022 this would reflect an annual average increase of approximately \$16.



**Thank You.
Questions?**

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

Volume Meter Size	Residential 200 m ³ 5/8"	Residential 200 m ³ Ranking	Volume Meter Size	Residential 200 m ³ 5/8"	Residential 200 m ³ Ranking	Volume Meter Size	Residential 200 m ³ 5/8"	Residential 200 m ³ Ranking
Mississauga	\$ 590	Low	Orillia	\$ 988	Mid	Bracebridge	\$ 1,268	High
Caledon	\$ 590	Low	St. Catharines	\$ 992	Mid	Huntsville	\$ 1,268	High
Brampton	\$ 590	Low	Sarnia	\$ 1,015	Mid	Gravenhurst	\$ 1,268	High
Timmins	\$ 680	Low	Collingwood	\$ 1,033	Mid	Thunder Bay	\$ 1,278	High
Hamilton	\$ 781	Low	Haldimand	\$ 1,043	Mid	Windsor	\$ 1,306	High
Hanover	\$ 782	Low	Aurora	\$ 1,046	Mid	Wellesley	\$ 1,308	High
Brockville	\$ 787	Low	Kincordine	\$ 1,046	Mid	Belleville	\$ 1,312	High
Elliot Lake	\$ 807	Low	Orangeville	\$ 1,054	Mid	Tay	\$ 1,318	High
Ottawa	\$ 820	Low	Whitchurch-Stouffville	\$ 1,063	Mid	Centre Wellington	\$ 1,322	High
Cornwall	\$ 824	Low	Lincoln	\$ 1,079	Mid	Quinte West	\$ 1,326	High
Toronto	\$ 827	Low	St. Thomas	\$ 1,080	Mid	Owen Sound	\$ 1,344	High
Stratford	\$ 887	Low	Essex	\$ 1,080	Mid	Welland	\$ 1,348	High
New Tecumseth	\$ 888	Low	North Perth	\$ 1,089	Mid	Grey Highlands	\$ 1,393	High
Markham	\$ 894	Low	The Blue Mountains	\$ 1,093	Mid	Greater Sudbury	\$ 1,403	High
Sault Ste. Marie	\$ 902	Low	Strathroy-Caradoc	\$ 1,098	Mid	West Grey	\$ 1,449	High
Brantford	\$ 905	Low	North Bay	\$ 1,103	Mid	Norfolk	\$ 1,452	High
Tillsonburg	\$ 914	Low	Barrie	\$ 1,109	Mid	East Gwillimbury	\$ 1,454	High
Aylmer	\$ 917	Low	Lakeshore	\$ 1,112	Mid	Brant	\$ 1,456	High
Pickering	\$ 920	Low	Peterborough	\$ 1,124	Mid	Southgate	\$ 1,467	High
Clarington	\$ 920	Low	Kitchener	\$ 1,132	Mid	King	\$ 1,475	High
Scugog	\$ 920	Low	Thorold	\$ 1,151	Mid	Springwater	\$ 1,481	High
Oshawa	\$ 920	Low	Georgina	\$ 1,162	Mid	Guelph-Eramosa	\$ 1,487	High
Brock	\$ 920	Low	Cambridge	\$ 1,171	Mid	Fort Erie	\$ 1,503	High
Ajax	\$ 920	Low	North Dumfries	\$ 1,174	Mid	Dryden	\$ 1,591	High
Whitby	\$ 920	Low	Ingersoll	\$ 1,174	Mid	Mapleton	\$ 1,592	High
Halton Hills	\$ 925	Low	Niagara-on-the-Lake	\$ 1,184	Mid	Port Colborne	\$ 1,644	High
Oakville	\$ 925	Low	Wilmot	\$ 1,188	Mid	Lambton Shores	\$ 1,655	High
Milton	\$ 925	Low	Chatham-Kent	\$ 1,195	Mid	Minto	\$ 1,680	High
Burlington	\$ 925	Low	Espanola	\$ 1,199	Mid	North Middlesex	\$ 1,712	High
London	\$ 932	Low	Kingston	\$ 1,205	Mid	Parry Sound	\$ 1,753	High
Waterloo	\$ 939	Low	West Lincoln	\$ 1,216	Mid	Middlesex Centre	\$ 1,756	High
Vaughan	\$ 940	Low	Innisfil	\$ 1,221	Mid	Kenora	\$ 1,762	High
Niagara Falls	\$ 951	Low	Saugeen Shores	\$ 1,230	Mid	Central Elgin	\$ 1,935	High
Pelham	\$ 954	Low	Woolwich	\$ 1,246	Mid	South Bruce Peninsula	\$ 1,946	High
Guelph	\$ 961	Low	Wellington North	\$ 1,246	Mid	Meaford	\$ 1,958	High
			Newmarket	\$ 1,265	Mid	Prince Edward County	\$ 2,188	High



The 2021 Draft 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: \$824
- BMA average: \$1,174
- BMA median: \$1,124

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

Volume Meter Size	Commercial 10,000 m ³ 2"	Commercial 10,000 m ³ Ranking	Volume Meter Size	Commercial 10,000 m ³ 2"	Commercial 10,000 m ³ Ranking	Volume Meter Size	Commercial 10,000 m ³ 2"	Commercial 10,000 m ³ Ranking
Elliot Lake	\$ 11,800	Low	North Bay	\$ 30,929	Mid	Dryden	\$ 44,930	High
Cornwall	\$ 11,841	Low	Halton Hills	\$ 31,291	Mid	Greater Sudbury	\$ 45,077	High
Espanola	\$ 15,848	Low	Oakville	\$ 31,291	Mid	Waterloo	\$ 45,458	High
Collingwood	\$ 19,155	Low	Burlington	\$ 31,291	Mid	Newmarket	\$ 45,552	High
Peterborough	\$ 20,160	Low	Milton	\$ 31,291	Mid	Gravenhurst	\$ 45,651	High
Sarnia	\$ 20,393	Low	Haldimand	\$ 31,800	Mid	Bracebridge	\$ 45,651	High
West Grey	\$ 20,834	Low	Lakeshore	\$ 31,884	Mid	Huntsville	\$ 45,651	High
Grey Highlands	\$ 21,982	Low	Belleville	\$ 32,159	Mid	The Blue Mountains	\$ 45,952	High
Kincardine	\$ 22,075	Low	Saugeen Shores	\$ 32,671	Mid	Lincoln	\$ 46,689	High
North Perth	\$ 22,352	Low	Thorold	\$ 33,638	Mid	Vaughan	\$ 47,007	High
Hanover	\$ 23,415	Low	Quinte West	\$ 33,892	Mid	Wellington North	\$ 47,194	High
Tillsonburg	\$ 25,081	Low	Timmins	\$ 33,983	Mid	Woolwich	\$ 48,212	High
Brockville	\$ 25,541	Low	Southgate	\$ 34,399	Mid	Welland	\$ 48,553	High
Ingersoll	\$ 25,823	Low	St. Catharines	\$ 34,895	Mid	North Dumfries	\$ 49,292	High
Niagara Falls	\$ 26,525	Low	Kenora	\$ 35,066	Mid	Wilmot	\$ 49,385	High
London	\$ 27,295	Low	Sault Ste. Marie	\$ 35,114	Mid	South Bruce Peninsula	\$ 49,729	High
Mapleton	\$ 27,352	Low	Toronto	\$ 35,144	Mid	Cambridge	\$ 49,830	High
Thunder Bay	\$ 27,843	Low	Windsor	\$ 35,594	Mid	Whitchurch-Stouffville	\$ 51,804	High
Stratford	\$ 28,265	Low	Port Colborne	\$ 35,938	Mid	Aurora	\$ 52,300	High
Kingston	\$ 28,552	Low	Orillia	\$ 36,755	Mid	Centre Wellington	\$ 53,282	High
Pickering	\$ 28,592	Low	Innisfil	\$ 37,134	Mid	Parry Sound	\$ 54,145	High
Ajax	\$ 28,592	Low	Aylmer	\$ 37,260	Mid	Georgina	\$ 54,474	High
Brock	\$ 28,592	Low	Fort Erie	\$ 37,442	Mid	Wellesley	\$ 54,816	High
Scugog	\$ 28,592	Low	Hamilton	\$ 37,504	Mid	Meaford	\$ 55,456	High
Whitby	\$ 28,592	Low	West Lincoln	\$ 37,784	Mid	Springwater	\$ 56,527	High
Oshawa	\$ 28,592	Low	Brant	\$ 38,394	Mid	Kitchener	\$ 56,591	High
Clarington	\$ 28,592	Low	Owen Sound	\$ 39,193	Mid	East Gwillimbury	\$ 59,247	High
Chatham-Kent	\$ 28,710	Low	Guelph	\$ 39,429	Mid	Guelph-Eramosa	\$ 61,169	High
St. Thomas	\$ 28,727	Low	Ottawa	\$ 41,371	Mid	Central Elgin	\$ 63,273	High
Brampton	\$ 29,520	Low	Strathroy-Caradoc	\$ 41,590	Mid	North Middlesex	\$ 64,765	High
Caledon	\$ 29,520	Low	Barrie	\$ 42,474	Mid	Tay	\$ 65,900	High
Mississauga	\$ 29,520	Low	Brantford	\$ 42,561	Mid	Lambton Shores	\$ 66,214	High
Niagara-on-the-Lake	\$ 29,687	Low	Norfolk	\$ 42,793	Mid	King	\$ 67,311	High
Essex	\$ 29,794	Low	Orangeville	\$ 42,943	Mid	Prince Edward County	\$ 68,267	High
Pelham	\$ 30,009	Low	Minto	\$ 43,926	Mid	Middlesex Centre	\$ 69,991	High
			New Tecumseth	\$ 44,400	Mid			
			Markham	\$ 44,680	Mid			

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Commercial

- Cornwall: \$11,841
- BMA average: \$38,533
- BMA median: \$35,938