

Wastewater Asset Management Plan



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Corporate Asset Management

February 8, 2022

Presentation Objectives



Refresher on asset management at the City



Update on compliance with O. Reg. 588/17



Overview of Barrie's wastewater assets and service levels

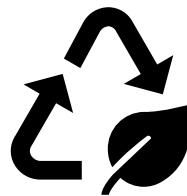


Snapshot of current and future investment challenges

Asset Management is a proactive approach that considers long term and immediate asset needs.



The City of Barrie owns and manages almost \$6 billion worth of assets – including roads, sewers, buildings and equipment.



These assets allow the City to deliver a variety of services, like wastewater collection and treatment, recreation and protecting our environment.

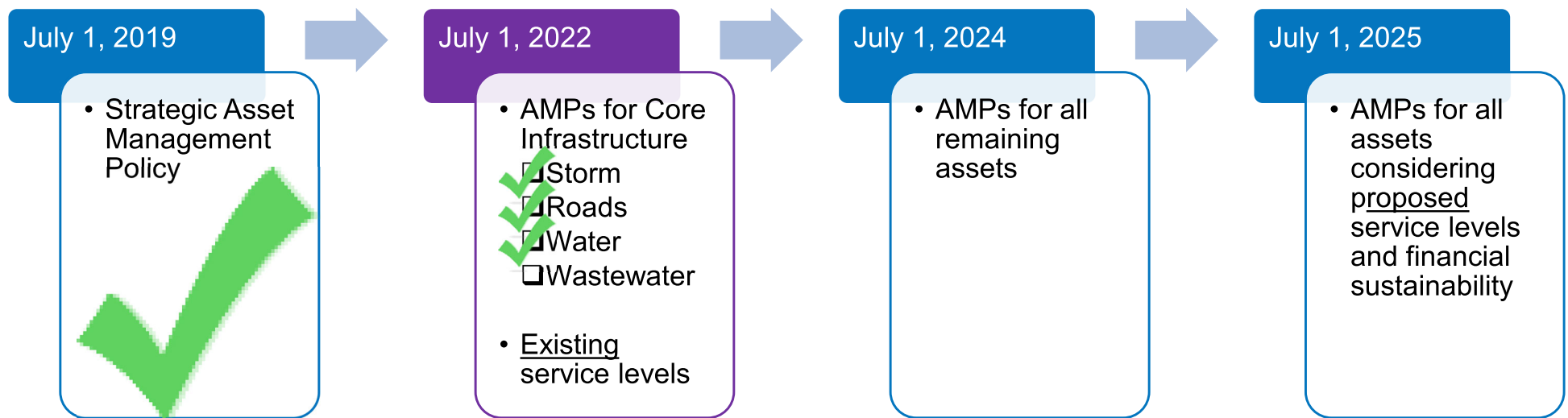


Asset management helps us make informed decisions on how to deliver services in a way that:

- minimizes risk;
- is sustainable; and
- makes the most financial sense.

Asset Management is a Journey

Barrie is compliant with O. Reg. 588/17 – Asset Management Planning for Municipal Infrastructure



Keeping Track of Assets

Wastewater Collection and Treatment



The City owns wastewater assets to maintain high water quality in Kempenfelt Bay and provide a clean, safe and environmentally efficient method of wastewater collection and treatment that will continue to support our existing community and economy as well as accommodating growth in a sustainable way.

Wastewater Assets



The City's wastewater assets include 550 km of sewer mains, 7,890 maintenance holes, the Barrie Wastewater Treatment Facility, the Oro-Medonte Biosolids Facility, and 13 sewage pumping stations.

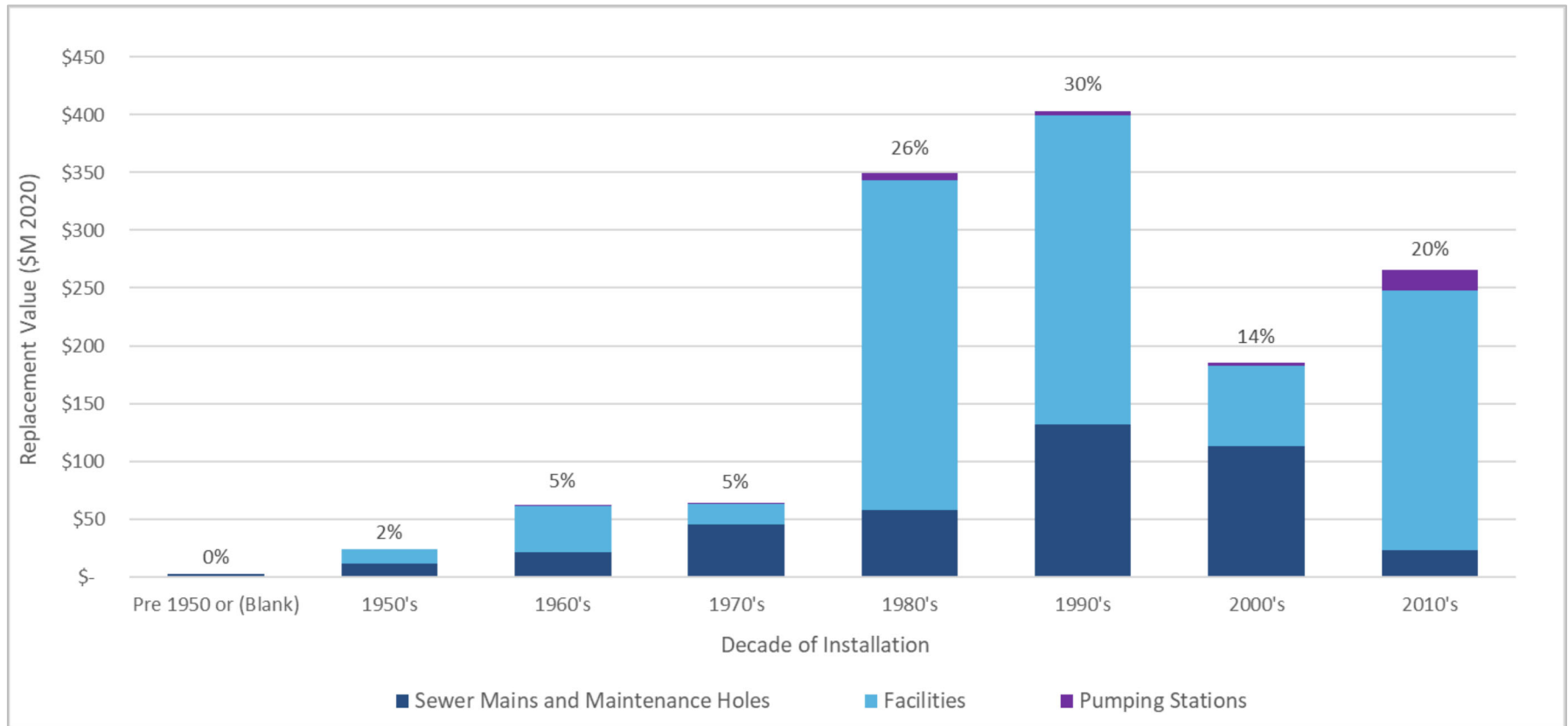
For Today and Tomorrow



Maintaining over \$1.35B in wastewater assets for our community, while also making improvements and adding new assets to accommodate growth and intensification, will be the key challenges in the coming years.

Asset Type	Replacement Value (\$M 2021)
Linear Assets	\$406
Sewer Mains	\$331
Maintenance Holes	\$74
Vertical Assets	\$962
Barrie Wastewater Treatment Facility	\$798
Oro-Medonte Biosolids Facility	\$119
Sewage Pumping Stations	\$30

A Young Wastewater System



About 90% of the City's wastewater assets were constructed since 1980 and a large portion of the assets are early in their lifecycle and do not require major replacement. However, it is important to plan and budget for preventative maintenance and renewal, as well as for new and upgraded assets as the City continues to grow.

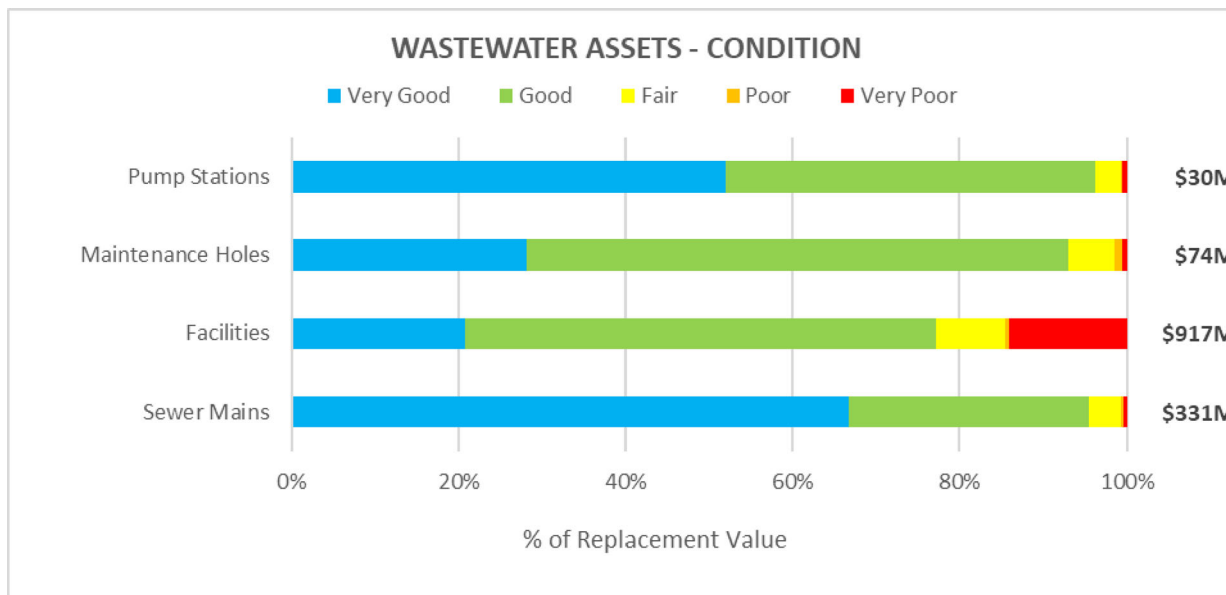
The Condition of Our Assets

CONDITION ASSESSMENT PROGRAMS

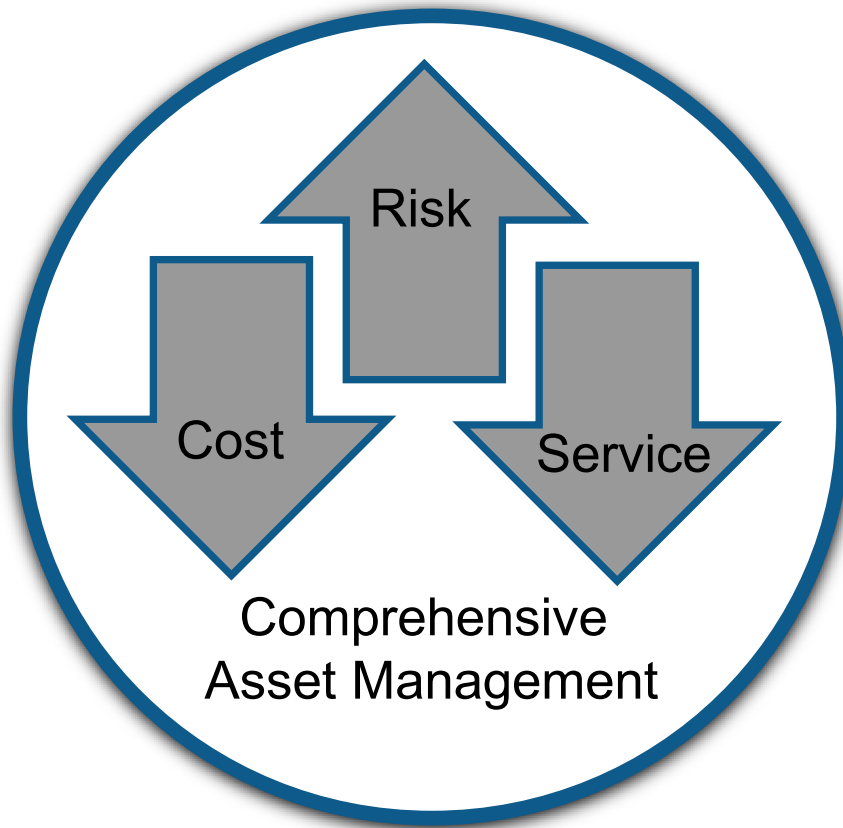
Understanding the condition of assets is a key component of managing them effectively. The City has a program to monitor the condition of our assets. This ranges from visual inspections with CCTV cameras for sanitary sewers to detailed condition assessment of our facilities and sewage pumping stations.

ASSET CONDITION RESULTS

Most wastewater assets are in 'fair' condition to 'very good' condition, however 9.6% (\$130 million) are in poor to very poor condition. While it is important to address these poor-very poor assets, it is also critical to do timely renewal work on newer assets before they degrade to the point of needing more expensive work.



Levels of Service – Striking a Balance



The City's wastewater assets provide service to citizens, businesses and visitors.

The City must balance between service levels, cost of service and acceptable risk.

Establishing, monitoring and reporting on LOS are integral to our asset management program.

What Level of Service Are We Providing?

99.5% PROPERTIES CONNECTED TO THE WASTEWATER SYSTEM

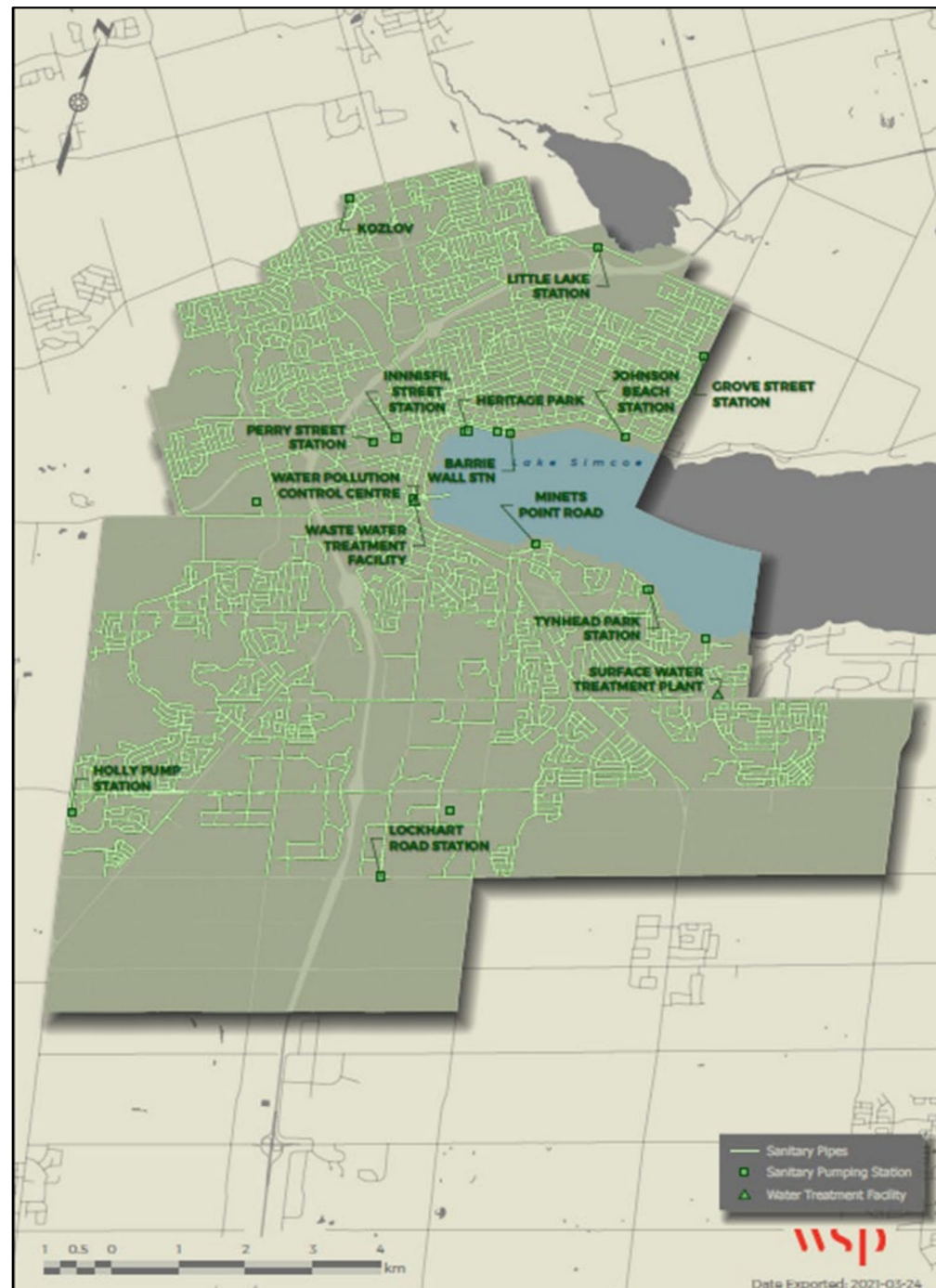
99% LINEAR ASSETS IN FAIR TO VERY GOOD CONDITION

87% VERTICAL ASSETS IN FAIR TO VERY GOOD CONDITION

0 ANNUAL EFFLUENT COMPLIANCE EXCEEDANCES (NO SPILLS)

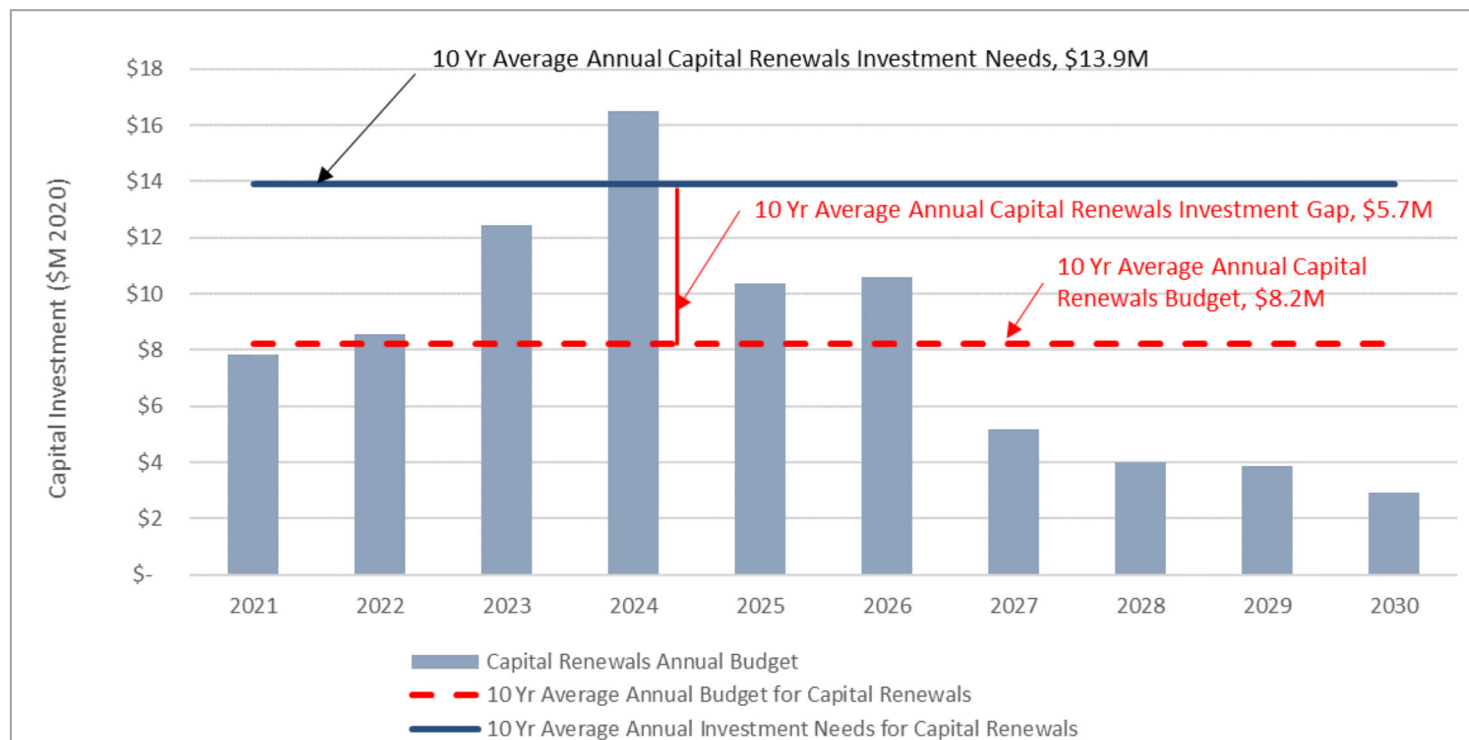
10% OR MORE OF SEWERS INSPECTED ANNUALLY

27.6% TREATED WATER AS INFLOW AND INFILTRATION TO THE WASTEWATER SYSTEM



Looking After What We Own is a Priority

- There is currently a backlog in renewal needs.
- Though much of the current backlog will be addressed by planned projects over the next 10 years, other assets will continue to age.
- Renewal investment will need to increase over the long term to reduce the infrastructure gap.

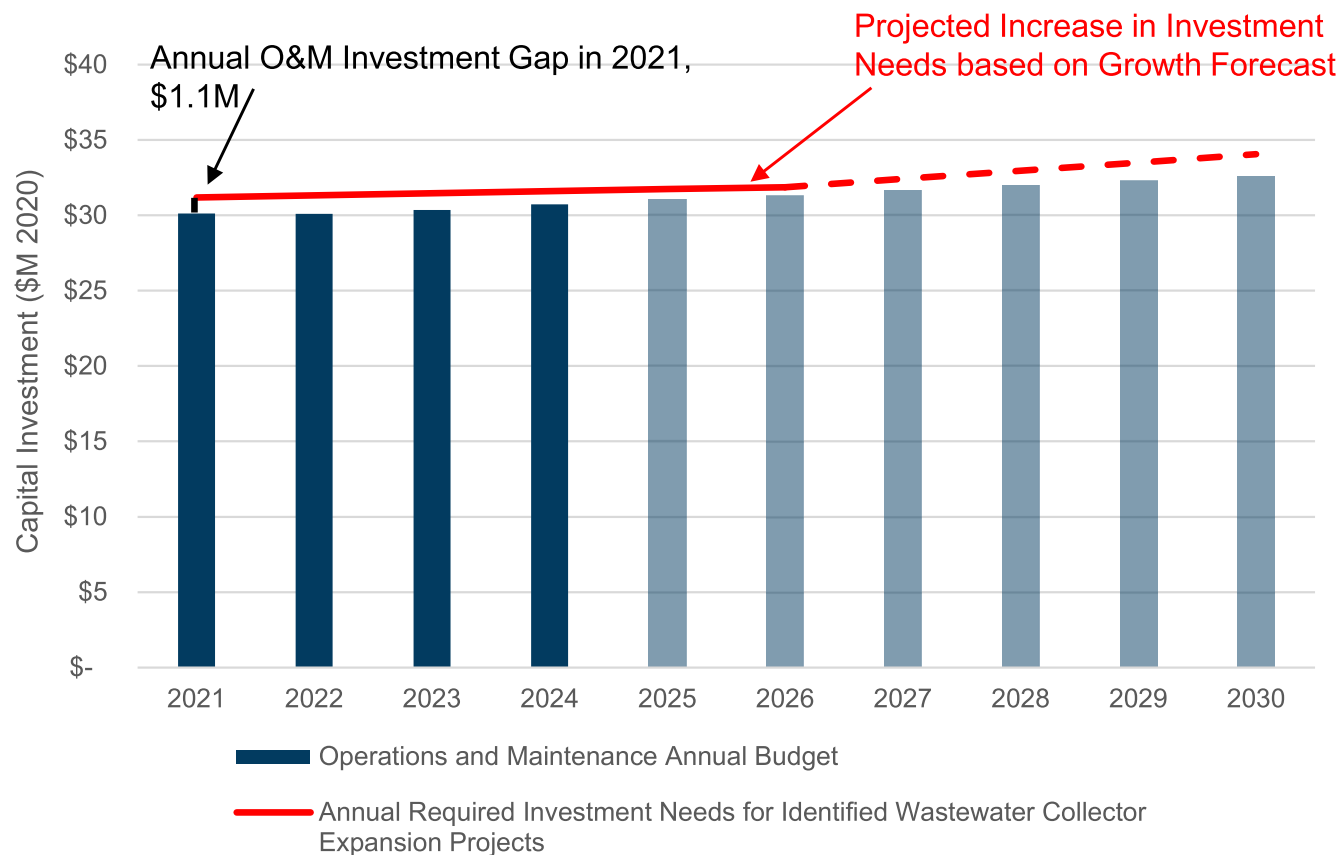


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RENEWALS &
REHABILITATION

More Assets Requires More Maintenance

- The City will be adding, upgrading, and assuming a substantial quantity of new wastewater assets in the coming years.
- As our wastewater asset portfolio grows, so must our Operating and Maintenance budgets.

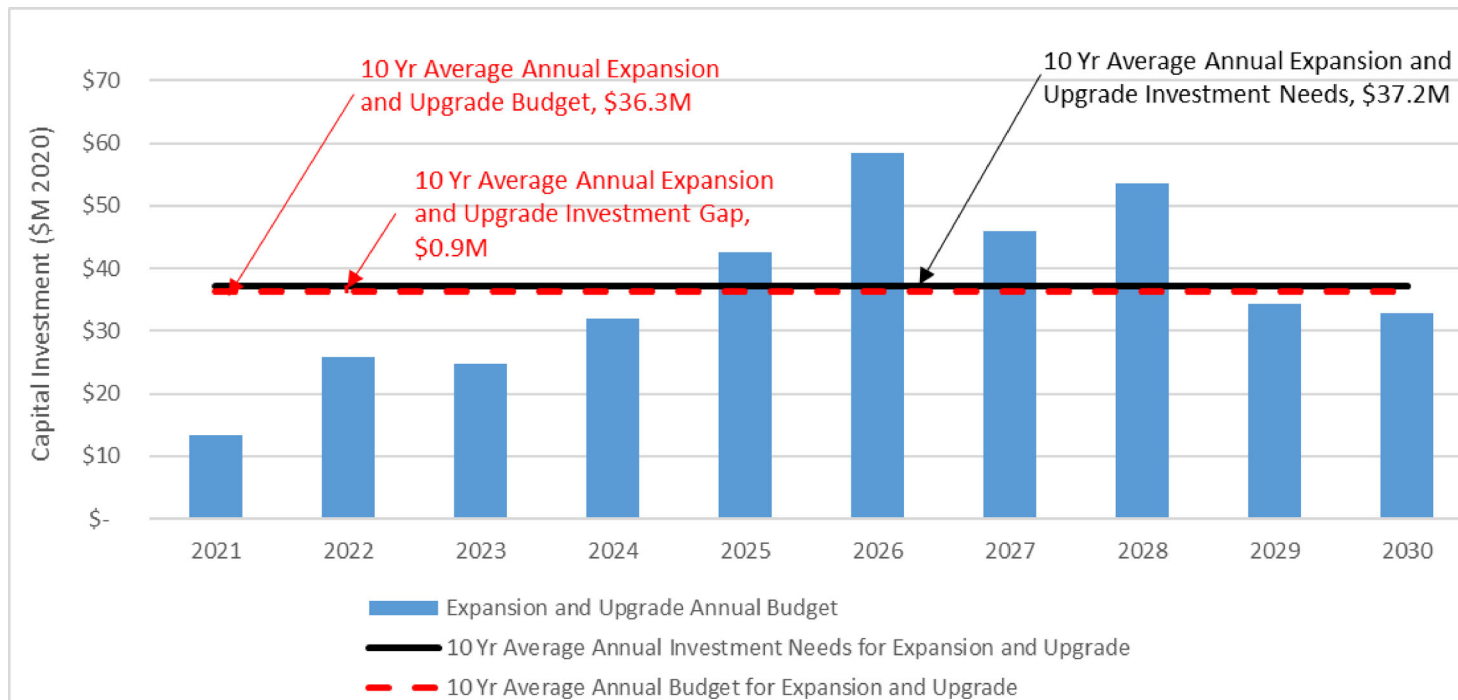


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OPERATIONS & MAINTENANCE

A Growing City Needs New and Upgraded Assets

- Investment in new or expanded wastewater assets must keep pace with the pace of growth.
- Most expansion and upgrade needs are included in the 10-year Capital Plan; a small number of proposed improvements from the Wastewater Collection Master Plan have been deferred beyond 2030.



3

EXPANSION AND
UPGRADE

Conclusions



State of Assets

Barrie's wastewater assets are in **good condition, of adequate capacity, and performing well** at providing their intended service.



Levels of Service

When there is not enough funding to meet needs, the level of service drops. Asset management helps understand this risk.



Financial Outlook

The backlog and short-term investment gap will be reduced significantly through planned projects. **Longer term investment must increase.**



Compliance

Barrie has completed all Core Infrastructure AMPs required to comply with provincial regulation. Our work continues.

Thank You

