

The Regional Municipality of York

Committee of the Whole
Environmental Services
April 13, 2023

Report of the Commissioner of Public Works

Water and Wastewater Capital Infrastructure Status Update

1. Recommendation

The Regional Clerk circulate this report for information to the Ontario Ministers of Environment, Conservation and Parks, and Municipal Affairs and Housing and Infrastructure, Clerks of the local municipalities, Building Industry and Land Development Association, and the Ontario Homebuilders' Association.

2. Summary

This report updates Council on the status of key water and wastewater infrastructure projects required to support planned growth in the Region and ensure the existing system is maintained in a state of good repair. Staff reported to Council in [September 2021](#) with an update on servicing capacity available to support growth in areas within the York Durham Sewage System and stand-alone systems and will follow up in Q4 2023 with the next capacity assignment report.

Key Points:

- On September 9, 2021, Council authorized an additional capacity assignment of 1,850 persons to support growth in Aurora, Newmarket and East Gwillimbury
- As of the end of 2021, the total available capacity for growth in the York Durham Sewage System is 163,046 persons, representing about six years of growth Region-wide. Available capacity as of 2022 will be provided in the next capacity assignment report
- The 2023 Public Works Budget and 10-Year Capital Plan include \$3.1 billion in water and wastewater projects, including \$1.7 billion for growth infrastructure to provide servicing capacity in the Regional water and wastewater systems and \$1.4 billion in proactive asset management to ensure existing water and wastewater system reliability
- Implementation of water and wastewater works identified in the Public Works Capital Plan is critical to deliver capacity needed to service planned growth and is dependent

on collection of forecasted development charge revenues, which will be impacted by the passage of Bill 23, *More Homes Built Faster Act, 2022*

- As of December 2022, the Region has been awarded \$100.5 million in Disaster Mitigation and Adaptation Funding from Infrastructure Canada for five capital projects, with further applications being considered in the upcoming 2023 intake

3. Background

Servicing capacity currently available for growth up to approximately 1.3 million people

It is essential that water and wastewater servicing is available for municipal growth to occur. The amount of servicing capacity, expressed in persons, is “assigned” to local municipalities and, in turn, local municipalities allocate that capacity to individual developments to support residential growth.

On [September 9, 2021](#), Council approved a capacity assignment of 1,850 persons to support growth in Aurora, East Gwillimbury and Newmarket. In combination with the 108,638 persons assigned on [September 12, 2019](#) to support growth to 2026 in King, Markham, Richmond Hill, Vaughan and Whitchurch-Stouffville, the cumulative servicing capacity assigned to support Region-wide growth is over 1.3 million people with total available capacity of 179,982. The unused capacity in the York Durham Sewage System at the end of 2021 is estimated at 163,046 persons. This figure will be updated based on consultation with our local municipal partners. Town of Georgina is serviced by a Lake Simcoe-based standalone system and not by the York Durham Sewage System.

Capital Plan focuses on building the Regional water and wastewater network, sustaining service levels, and managing system risk and resiliency

Water and wastewater infrastructure work comprise 31% of the Region’s total 2023 10-Year Capital Plan. Implementation of the work remains critical for delivering capacity needed to service growth. The capital program had 174 active projects in 2022. This is the greatest number of projects ever in the water and wastewater portfolio, with additional project work forecasted into 2023. These projects focus on building the Regional trunk system, maintaining infrastructure in a state of good repair, and managing system risk and resiliency. The number of active projects by project delivery phase is summarized in Table 1.

Table 1
2022 Active Water and Wastewater Projects by Project Delivery Phase

Project Delivery Phase	Number of Active Projects
Planning	24
Environmental Assessment	6
Design	67
Construction	62
Warranty	15
Total	174

4. Analysis

\$3.1 billion of capital water and wastewater infrastructure works are included in the 2023 Public Works Budget and 10-Year Capital Plan. Sixty-two construction projects are now underway and no major construction delays are anticipated at this time. The following sections provide an update on key water and wastewater projects within the 10-Year Capital Plan under the following general headings: York Durham Primary Sewage System, Upper York Sewage Solutions, Vaughan Servicing Projects, Additional Water and Wastewater Servicing Projects, and Peel Region and City of Toronto Cost-Shared Projects. A project summary and a location map are included in Appendices 1 and 2, respectively.

YORK DURHAM PRIMARY SEWAGE SYSTEM

Duffin Creek Plant Outfall upgrades completed in 2022

York and Durham Regions are implementing recommendations outlined in a provincially approved Class Environmental Assessment and Phosphorus Reduction Action Plan study for the Duffin Creek Plant. These prior approvals are critical for the Regions as they unlock use of the full plant capacity (630 megalitres per day) to service future growth. Construction of the new outfall diffusers was completed in September 2022.

Construction of the Phosphorus Reduction Action Plan upgrades began January 2022 and is scheduled for completion fall 2024. Once complete, the full treatment capacity of the Duffin Plant will be available to service planned growth for York and Durham Regions. Future expansion needs will be reviewed as part of assessment of Bill 23, *More Homes Built Faster Act, 2022*.

2023 Capital Plan includes \$202 million for the Primary Trunk Sewer twinning project

The Primary Trunk Sanitary Sewer (Primary Trunk) is a critical section of the York Durham Sewage System, collecting wastewater flows from York Region, Town of Ajax and City of Pickering. The Primary Trunk is about five kilometres long and the diameter ranges between 2,642 and 3,000 millimetres. The southern section of the Primary Trunk from the intersection of Valley Farm Road and Finch Avenue to Duffin Creek Plant, as shown on the map in Appendix B, will require a new trunk sanitary sewer (twinning of the existing) to ensure this essential service is maintained.

York Region and Durham Region have planned for the Primary Trunk Twinning as part of the long-term infrastructure needs of the shared system. Twinning of the Primary Trunk has been included in Durham Region's 10-year capital program since 2009 and in York Region's Regional Development Charges Study. The main objectives of this project are to:

- Provide critical redundancy for the existing Primary Trunk Sanitary Sewer system to increase operational flexibility in managing flows and undertaking inspections and rehabilitation as required now and over the lifetime of the pipe
- Develop a sustainable sewage servicing solution that can accommodate projected and approved growth in York Region and Durham Region to the year 2051 by increasing conveyance capacity, and overall security of the system

The York Durham Sewage System Primary Trunk Sanitary Sewer Municipal Class Environmental Assessment and Preliminary Design assignment was awarded in 2022. With the introduction of *Bill 23, Schedule 10*, this project was exempted from the *Environmental Assessment Act*. The engineering assignment is being leveraged to deliver the legislated Environmental Impact Assessment Report and expedite the project design. The wastewater infrastructure required to address *Bill 23, Schedule 10* will involve modifications to the Primary System, including the Duffin Creek Plant and outfall.

UPPER YORK SEWAGE SOLUTIONS

Upper York Sewage Solutions project determined through provincial direction in 2009 and submitted for approval to the province in 2014

The Upper York Sewage Solutions project was planned to provide servicing capacity for over 80,000 persons to support provincially-approved growth in the Towns of Aurora, Newmarket and East Gwillimbury. In July 2014, after more than five years of extensive scientific study and consultation with stakeholders and Indigenous peoples, York Region submitted the Individual Environmental Assessment report to the province for approval.

Interim infrastructure solutions to provide servicing capacity to support growth are progressing in the Towns of Aurora, East Gwillimbury and Newmarket

At its meeting of [June 28, 2018](#), Council authorized two interim infrastructure solutions to provide water and wastewater servicing capacity for a population of 11,500 persons to support growth in the Towns of Aurora, East Gwillimbury and Newmarket, out of which 10,500 persons were assigned subject to completion of these two trigger capital projects. An additional capacity of 1,000 persons was assigned for Centres and Corridors in these three municipalities in [2021](#). Both projects have been awarded funding under one agreement with Infrastructure Canada under the Disaster Mitigation and Adaptation Fund.

- Upgrades to the Region's Aurora Sewage Pumping Station project were completed in 2021, releasing 7,000 people in previously assigned capacity
- Construction of the Henderson Sewage Pumping Station commenced in summer 2021 and commissioning is expected in Q2 2023, releasing 4,500 people in previously assigned capacity

In September 2022, Provincial Advisory Panel recommended wastewater servicing for Upper York service area through York Durham Sewage System and Duffin Creek Plant

In July 2020, the Minister of the Environment, Conservation and Parks advised York Region that the province was considering options, including a potential southern trunk sewer, as an alternative to the preferred solution identified by the Upper York Sewage Solutions Environmental Assessment. The Minister's letter expressed the urgency of this work and the need to work quickly to have a solution constructed by 2026.

On June 3, 2021, the Ontario government posted its intent to establish a Provincial Expert Advisory Panel and introduced Bill 306, proposed legislation titled the *York Region Wastewater Act, 2021*. Bill 306 was subsequently replaced by Bill 5, which mirrored the objectives of Bill 306 with additional measures to remove the ability of the Minister to render a decision on the Upper York Sewage Solutions Environmental Assessment and prohibit the Region from taking any action. Bill 5 received Royal Assent in October 2021.

In January 2022, the Provincial Expert Advisory Panel (Provincial Panel) was formed with aims to advise the Minister on options to address wastewater servicing capacity needs in York Region and future growth in both York Region and Durham Region. The Provincial Panel held meetings with stakeholders and submitted their report to the Minister in September 2022. The Provincial Panel's report assessed four different servicing options for the Upper York service area (Aurora, East Gwillimbury, Newmarket) and provided advice to the Minister on a recommended solution.

Of the four options, the Provincial Panel recommended connecting the Upper York service area to the York Durham Sewage System and Duffin Creek Plant by upsizing a new sewer with a series of pumping stations, forcemains and sewers. The Provincial Panel described this as best satisfying the need for additional sewage servicing capacity necessary to accommodate future population and development growth in both York and Durham Regions.

***Supporting Growth and Housing in York and Durham Regions Act, 2022* legislates replacement of Upper York Sewage Solutions project with infrastructure in the York Durham Sewage System**

On October 25, 2022, the Province introduced Bill 23, the *More Homes Built Faster Act, 2022* which received Royal Assent on November 28, 2022, and legislates significant regulatory changes that aim to advance the Province's goal of increasing housing supply in Ontario.

As brought forward to Council on [March 9, 2023](#) in an update report, Schedule 10, *Supporting Growth and Housing in York and Durham Regions Act, 2022* legislates the Region to expand and improve the existing York Durham Sewage System to convey sewage from communities in the Upper York service area to our co-owned Duffin Creek Plant in Durham Region for treatment and discharge into Lake Ontario. As a result of this legislation, the Upper York Sewage Solutions Environmental Assessment report is deemed to have been withdrawn and the Minister is not required to render a decision on this application.

VAUGHAN SERVICING PROJECTS

West Vaughan Sewage Servicing projects are progressing through to construction

An Environmental Assessment for West Vaughan Sewage Servicing to service future growth of 33,200 persons and 50,100 employment population was completed in 2013. The West Vaughan Sewage Servicing project includes 14 kilometres of trunk sewer, with 12 kilometres to be completed by 2028 and the remaining two kilometres to be completed after 2034. This project includes expanding the Humber Sewage Pumping Station by 2025. The tender for Humber Sewage Pumping Station was awarded July 2022 and construction is underway. The trunk sewer tender will be released by summer 2023.

Northeast Vaughan Water and Wastewater Servicing design projects are underway to meet advanced construction timelines

The Class Environmental Assessment Study to provide additional water and wastewater servicing capacity accommodating anticipated growth in Northeast Vaughan up to 2051 was filed in 2019. This servicing capacity includes 155,000 persons of residential and employment within the wastewater service area and 115,000 persons of residential and employment within the water service area.

In June 2020, Council authorized the Region to execute an agreement with the development community and Block 27 Landowners Group to advance construction of Northeast Vaughan Water and Wastewater Servicing (map Appendix B). Table 2 identifies the current design status and planned in-service dates for the servicing solutions.

Table 2
Northeast Vaughan Servicing Projects

Project	Design / Tender Status	Planned In- Service
Water Servicing – Phase 1		
New pumping station in the Jane Street and Teston Road area	Tender ready by summer 2023	2025
New pumping station and elevated tank north of the Jane Street and Kirby Road intersection		
Water Servicing – Phase 2		
New elevated tank west of the Jane Street and King-Vaughan Road intersection	Design progressing toward 60%, to be completed by end of 2023 Anticipated tender release in 2026	2028
Wastewater Servicing – Phase 1		
1.9-kilometre section along Keele Street from south of Rutherford Road to Langstaff Road, and then east crossing Keele Street to an area just south of Langstaff Road	Design complete and tender ready	2025
Wastewater Servicing – Phase 2		
4.5-kilometre section along Jane Street from Teston Road to south of Rutherford Road	Design progressing toward 60%, to be completed by end of 2023	2028
Small (180 metre) relief sewer section located south of Rutherford Road, between Jane Street and Keele Street, in the existing Jane-Rutherford Sanitary Trunk Sewer easement	Anticipated tender release in 2025	

ADDITIONAL WATER AND WASTEWATER SERVICING PROJECTS

Environmental Study Report for Nobleton Class Environmental Assessment filed in 2021 with design underway

The Nobleton community is currently serviced by groundwater since connection to the York Water System (surface water) is not permitted due to the province's long-term plan, *A Place*

to Grow: Growth Plan for the Greater Golden Horseshoe, that precludes lake-based servicing for communities in the Greenbelt. An Environmental Assessment was filed on November 3, 2021, recommending water and wastewater servicing solutions to accommodate planned growth (to 10,800 persons) in Nobleton. The preferred solution includes:

- Increasing the existing well capacity on King Road near Highway 27
- Building an additional well on the existing property located at 12860 Highway 27
- Expanding capacity of the Janet Avenue Sewage Pumping Station and providing a below ground flow attenuation tank
- Expanding capacity of the existing Nobleton Water Resource Recovery Facility

The Nobleton Developer Group requested that the wastewater and water works be advanced to facilitate full buildout of their lands. On [April 7, 2022](#), Council authorized the Region to enter into an advanced funding agreement with the Nobleton Developer Group for design of the Nobleton Water Resource Recovery Facility expansion and associated solutions recommended by the Environmental Assessment. Design work cost is estimated at \$5.1 million.

Design services for the well upgrades were procured in Q3 2022 and are progressing through detailed design. New well construction is complete and advancing through monitoring and permitting approvals, planned for completion concurrent with upgrades to the Nobleton Wells treatment facility in 2026. The engineering design assignments for the Janet Avenue Sewage Pumping Station upgrades and Nobleton Water Resource Recovery Facility were awarded in Q3 2022 with detailed design progressing through 2023.

Richmond Hill Centre/Langstaff Gateway wastewater servicing construction completed Q1 2023 in advance of Yonge North Subway Extension

Wastewater infrastructure construction was completed in Q1 2023 to align with construction of Cedar Avenue and advanced in-service timing of 2023. The project provides additional wastewater servicing capacity to accommodate anticipated growth to 2051 in Richmond Hill and Markham, subject to availability of local infrastructure. Additional servicing capacity has been accounted for in the Regional infrastructure. This ensures alignment with higher densities considered in ongoing Secondary Plan Updates and in the province's Transit-Oriented Community program for this area.

Prepaid funding agreement advances design for Sutton Water Resource Recovery Facility expansion

The existing Sutton Water Resource Recovery Facility was commissioned in 2003 with an original design capacity to service 7,500 persons. An Environmental Assessment for plant expansion to service up to 13,500 persons has been completed.

Since 2016, the plant has been operating at less than 60% capacity and expansion works are forecasted in the Water and Wastewater Master Plan in the 2032-2041 timeframe. The Region continues to monitor plant flows, and a future capacity expansion project will be brought into the 10-Year Capital Plan when flow reaches 70% of plant capacity which may occur within the next two to three years. In this case, the Sutton Developer Group requested the Region advance design work for this project, estimated at a cost of \$5 million.

On [May 5, 2022](#), Council authorized the Region to enter into a prepaid funding agreement with the Sutton Developer Group for the design and expansion of the Sutton Water Resource Recovery Facility. The agreement was signed in January 2023 and design services will be awarded in Q3 2023. To manage peak flow during storm events and prevent spills, construction of a new equalization tank achieved substantial completion in Q2 2022. The new equalization tank does not change plant capacity now but will serve as a process tank in the future capacity expansion.

PEEL REGION AND CITY OF TORONTO COST-SHARED PROJECTS

Long-term servicing strategy includes Peel and Toronto cost-shared projects

Provision of water and wastewater services through partnerships with City of Toronto and Peel Region is fundamental to the Region's long-term servicing strategy. York Region staff conduct regular meetings with City of Toronto and Peel Region staff to discuss issues regarding servicing commitments, including cost-shared project delivery schedules.

Every five years, York and Peel Region staff conduct a review of Peel's asset management programming and York Region contributions to ensure sufficient funding for the maintenance and eventual replacement of shared water and wastewater infrastructure. The last review was completed in December 2021. In 2022, York Region contributed \$15.4 million through wholesale rate payments held by Peel Region for future major maintenance and replacement work.

Per the Toronto York Water Servicing Agreement, York Region provides an asset replacement contribution to the City of Toronto as part of our wholesale rate payment to assist with maintenance and ultimate replacement of the water system. The contribution is based on replacement value, an agreed-upon replacement factor and proportionate share of water system flows. In 2022, an asset replacement contribution of \$19.3 million was made by York Region to the City of Toronto.

Both Peel Region and City of Toronto are on track to meet their long-term water supply and wastewater servicing agreement commitments to York Region.

Peel cost-shared projects progressing as expected

York Region has secured 331 megalitres per day in water supply and transmission capacity from Peel Region. Based on York Region's 2022 Water and Wastewater Master Plan, water supply from Peel Region combined with water supply from City of Toronto is anticipated to

service growth to year 2051 and beyond. Bill 23 introduces some uncertainty that needs to be reviewed.

The Lakeview Water Treatment Plant and Lorne Park Water Treatment Plant Expansions were completed in 2018, with ground restoration work at Lakeview Water Treatment Plant scheduled for early 2022. The active water cost-shared projects under construction include interconnection of the new 12-kilometre Hanlan watermain to the existing watermain and the Beckett Sproule Pumping Station Expansion. The final phase of Hanlan watermain interconnection work is scheduled to be completed by Q3 2024. The Beckett Sproule Pumping Station project is under construction and scheduled to be completed by summer 2024.

As for wastewater cost-shared projects, the GE Booth Lakeview Wastewater Treatment Plant Capacity Recovery project is underway to ensure stability of York Region's capacity needs into the future. The Capacity Recovery project started construction in 2022 and is scheduled to be completed in 2028.

Toronto cost-shared projects progressing without impacts to capacity commitment

City of Toronto continues to advance cost-shared projects to meet capacity commitments. The Toronto Scarborough Watermain was completed in 2021. Completion dates for West Toronto and Richview Pumping Stations were updated by the City of Toronto to reflect longer procurement and construction durations based on experience with Ellesmere Pumping Station Standby Power Upgrades. Construction of Richview Pumping Station Standby Power was awarded in September 2021 and is now anticipated to achieve substantial performance in 2024. Construction of West Toronto Pumping Station Standby Power was awarded July 2021 and substantial performance for this project is now anticipated at the end of 2023. There are no impacts to York Region water delivery or capacity from these project timeline changes.

5. Financial

\$3.1 billion of capital water and wastewater infrastructure works are included in the 2023 Public Works Budget and 10-Year Capital Plan

The 2023 Public Works Budget and 10-Year Capital Plan include \$3.1 billion in water and wastewater projects. Of this total, \$1.7 billion is for growth infrastructure in the water and wastewater program, and \$1.4 billion for rehabilitation and replacement. The 2023 multi-year Capital Spending Authority for Public Works' water and wastewater infrastructure projects is \$2.0 billion. Additional Capital Spending Authority will be requested annually through the budget process as projects progress and specific requirements are established.

Growth capital work is frequently debt financed and repaid through future development charges. Water and wastewater rehabilitation and replacement work is paid for through water/wastewater rates. As part of the budget process, associated funding and resource

requirements for operations and asset management of expanded and complex infrastructure systems are areas of focus informing financial implications of servicing growth. A summary of key infrastructure project costs, based on the 2023 approved budget, is provided in Table 3.

Table 3
Cost Estimates for Key Infrastructure Projects

Project	Estimated Total Project Cost	10-Year Capital Plan Expenditures¹ (2023-2032)
Duffin Creek Plant Outfall and Phosphorus Reduction Action Plan Upgrades	\$25.1M	\$6.8M
Primary Trunk Sanitary Sewer	\$227.4M	\$201.5M
Aurora, Newmarket and East Gwillimbury Servicing ²	\$662.8M	\$432.7M
Upper York Sewage Solutions Interim Servicing	\$50.8M	\$8.9M
West Vaughan Sewage Servicing	\$470.8M	\$371.9M
Northeast Vaughan Water and Wastewater Servicing	\$333.4M	\$284.3M
Richmond Hill/Langstaff Gateway Regional Centre Water and Wastewater Servicing	\$24.9M	\$3.2M
Sutton Wastewater Servicing	\$57.7M	\$29.1M
City of Toronto Cost-shared Projects	\$302.5M	\$19.0M
Peel Region Water Cost-shared Projects	\$547.3M	\$16.7M
Peel Region Wastewater Cost-shared Projects	\$68.8M	\$8.2M
Estimated Total Project Cost and Remaining Budget in 10-Year Plan	\$2,771.5M	\$1,382.3M

1. Costs under review as projects advance and will be updated as part of annual budget process

2. Formerly the Upper York Sewage Solutions Water Reclamation Centre

Managing longevity of existing infrastructure through comprehensive asset management

One of Public Works key strategic goals involves proactively managing and maintaining infrastructure to ensure reliability and compliance with all regulatory requirements. Accordingly, the department's asset management program monitors condition and performance of the Region's multi-billion-dollar water and wastewater asset base. Infrastructure rehabilitation and replacement requirements to maintain current levels of service are estimated at about \$1.4 billion over the next 10 years. Some key projects and programs are as follows: Duffin Creek Incinerator Replacement Project, York Durham Sewage System Rehabilitation Program, Ductile Iron Watermain Replacement Program, Inflow and Infiltration Reduction Program, Water Storage Reservoir Rehabilitation Program, and Elevated Water Tank Rehabilitation Program. A breakdown of estimated costs by program area is provided in Table 4 along with other components of the capital program.

Table 4
Public Works Water and Wastewater 10-Year Capital Plan Expenditures

Capital Program Area	Expenditures (2023 - 2032)
Key Infrastructure Projects (detailed in Table 3)	\$1,382.3M
Other Water Growth Capital Projects	\$154.1M
Other Wastewater Growth Capital Projects	\$196.6M
Water Rehabilitation/Replacement	\$480.7M
Wastewater Rehabilitation/Replacement	\$880.3M
Total	\$3,094.0M

Region awarded \$66.4 million through the Disaster Mitigation and Adaptation Fund in 2019 and \$34.1 million in 2020

The Disaster Mitigation and Adaptation Fund's objective is to support large-scale infrastructure projects helping communities better manage risk of disasters triggered by natural hazards due to a changing climate. In 2019, the Region was granted \$66.4 million for three projects submitted for funding:

1. York Durham Sewage System Newmarket Forcemain Twinning
2. Aurora Sewage Pumping Station Overflow Mitigation
3. Natural Infrastructure - building climate change resilience through enhancement and restoration of the urban forest

The York Durham Sewage System Newmarket Forcemain Twinning achieved total performance in 2022. The agreement end date to complete the remaining works is March 2028. As of December 2022, \$50.2 million has been received from Infrastructure Canada.

In July 2020, the Region submitted two projects which were successfully approved for \$34.1 million in federal funding:

1. Groundwater Supply System Improvements
2. Holland Marsh Polder Phosphorus Recovery and Recycle Facility

The Groundwater Supply System Improvements project is an investment in groundwater facilities, including the addition of iron and manganese treatment. The Holland Marsh Polder Phosphorus Recovery and Recycle Facility project is being contemplated by the province through *Bill 23, Schedule 10* given the elimination of the Upper York Sewage Solutions Environmental Assessment and Phosphorus Offset program.

Public Works is considering submitting additional projects for funding as part of the next intake process in 2023.

Project timelines are contingent on the Region achieving development charge collection projections, which are impacted by the passage of Bill 23

Development charges are the main source of funding for growth-related water and wastewater projects. Project delivery timelines established in the 2023 10-Year Capital Plan are contingent on the Region achieving its growth and development charge collection projections. Amendments to the *Development Charges Act, 1997* under *Bill 23, More Homes Built Faster Act, 2022* legislation will reduce development charge collections and, without sustainable new funding, may hinder the Region's ability to execute infrastructure delivery.

The Region continues to assess development charge collections and project timelines as part of each annual budget process. The 2023 10-Year Capital Plan was prepared mainly before the passage of Bill 23 and does not reflect any funding changes associated with it. Future budgets and fiscal strategies will need to address these reductions through one or both of adjustments to the size and timing of the Capital Plan and incremental tax levy and user rate increases above those recommended within the 2023 multi-year budget. In addition to adapting to reductions in development charge collections, future budgets and fiscal strategies could be required to fund any additional or accelerated infrastructure spending required to support the objective of building 1.5 million homes in Ontario over the next 10 years.

6. Local Impact

York Region continues to work closely with local municipalities affected by the capital works program to facilitate planned community growth

Priority projects detailed in this report are crucial to providing timely servicing capacity to municipalities. This water and wastewater capacity is necessary to meet growth expectations while maintaining a high level of environmental and public health protection. The next capacity assignment report is planned for Q4 2023.

Continued support from local municipalities on inflow and infiltration reduction efforts and commitments to new development standards will help support capacity management in the system.

Additional servicing capacity for development is created through timely completion of key infrastructure projects

Release of additional capacity and granting approvals in each phase of the approval process are contingent on projects being completed as planned. Projects are continually monitored to ensure that risk of delay is mitigated where possible and capacity made available.

Staff continue to collaborate with local municipalities to ensure impacts to planned community growth are minimized to the extent possible considering any capacity constraints created by the current implementation schedule for these projects. A collaborative approach with local municipalities will continue to assist with reporting on their local capacity allocation in a timely manner to both support their respective capacity allocation and future growth commitments as well as the Regional capacity assignment to ensure fiscal sustainability. Accurate and transparent data exchanges are foundational to optimize infrastructure delivery in a financially sustainable way that avoids early-stage servicing challenges.

Implementing the “use it or redistribute” planning policies by local municipalities ensures timely collection of development charges and creates fiscal room for the next generation of projects.

7. Conclusion

\$3.1 billion 10-Year Capital Plan includes required projects for current and future capacity assignments

This report provides Council with a status of priority projects within the 10-Year Capital Plan and its relationship to timing of servicing capacity. Overall, 62 active construction projects are underway and no major construction delays are anticipated at this time. Continuing to monitor these projects will ensure that both capacity allocation and granting of planning approvals are synchronized with project delivery schedules. At the end of 2021, total available capacity for growth in the York Durham Sewage System was 163,046 persons.

The 2023 10-Year Capital Plan includes critical projects required to provide capacity (reported to Council September 2021) to service future growth. Where applicable, staff will continue to optimize water and wastewater networks through infra-stretching, water conservation, inflow and infiltration reduction and other capacity monitoring programs to ensure the Region maximizes potential from existing Regional systems. The Region will continue to monitor development charge collections and, where appropriate, continue to look for other funding sources for these infrastructure investments.

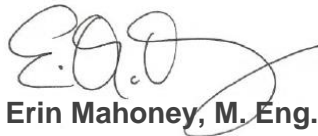
For more information on this report, please contact Mike Rabeau, Director, Capital Planning and Delivery, Public Works at 1-877-464-9675 ext. 75157.

Recommended by:



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Commissioner of Public Works



Approved for Submission:

Bruce Macgregor

Chief Administrative Officer

February 28, 2023

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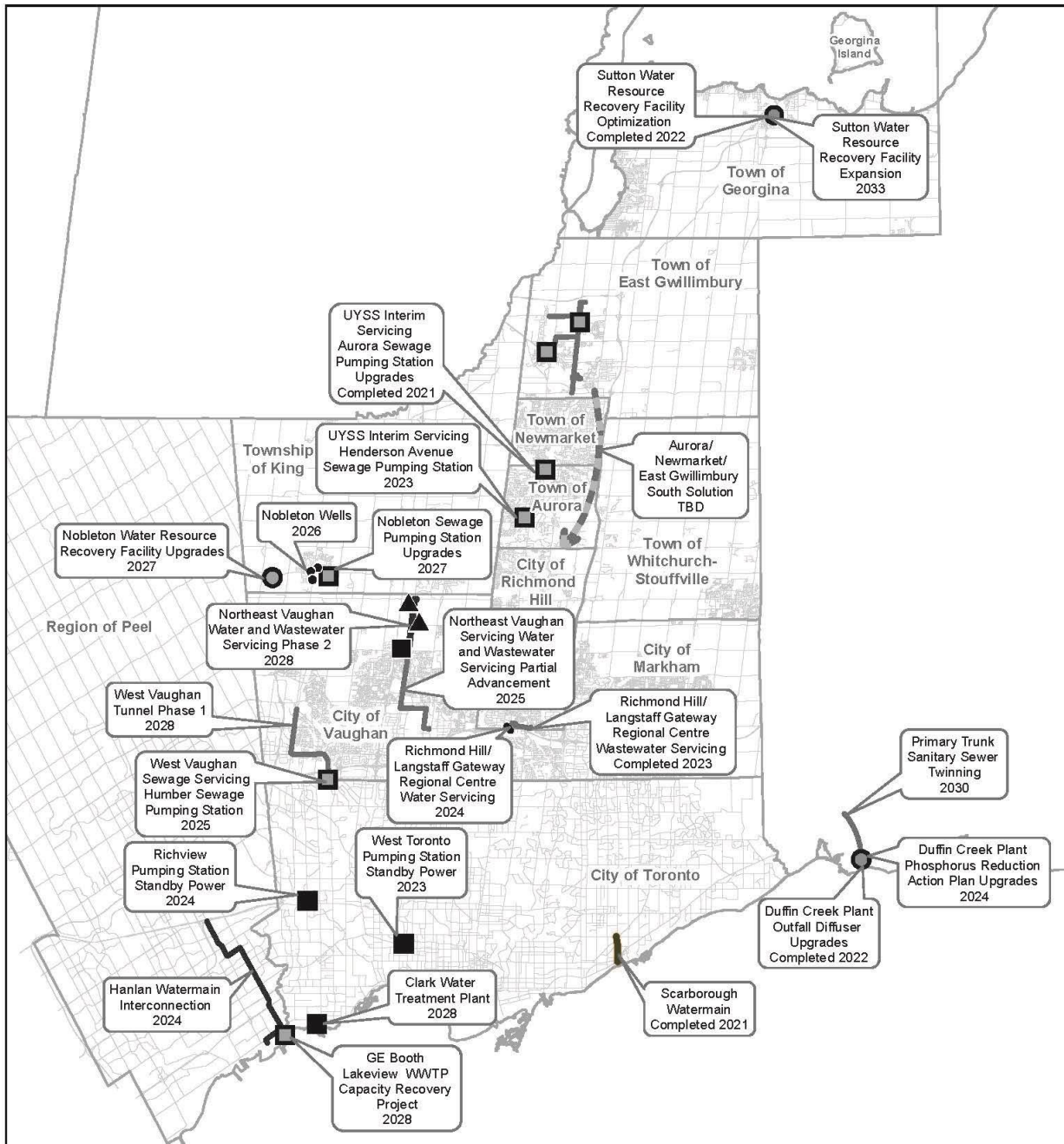
Appendix A - Status of Key Infrastructure Projects

Appendix B - Key Infrastructure Projects Location Plan

Status of Key Infrastructure Projects

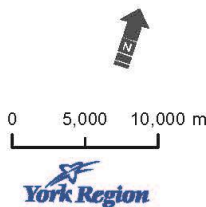
Project Name	Description	Current Status	Expected Project Commissioning Date
Duffin Creek Plant Outfall	Diffuser upgrades to increase outfall capacity to 630MLD	Substantial Completion	Completed 2022
	Phosphorus Reduction Action Plan Upgrades	Construction	2024
York Durham Sewage System Servicing	Primary Trunk Sanitary Sewer Twinning	Environmental Impact Assessment	2030
Aurora, Newmarket and East Gwillimbury Servicing	York Durham Sewage System expansion projects in response to Bill 23, Schedule 10 (Previously UYSS)	Modelling to Identify Conceptual Solution	TBD
Newmarket Forcemain Twinning	Twinning York Durham Sewage System forcemain in the Town of Newmarket	Total Completion	Completed 2021
Interim Infrastructure Solutions	Aurora Sewage Pumping Station Upgrades	Substantial Completion	Completed 2021
	Henderson Sewage Pumping Station	Construction	2023
West Vaughan Sewage Servicing	Humber Sewage Pumping Station	Construction	2025
	Tunnel Phase 1	Tendering	2028
Northeast Vaughan Servicing	Water and wastewater servicing solution partial advancement Phase 1	Detailed Design	2025
	Water and wastewater servicing Phase 2	Detailed Design	2028
Nobleton Water and Wastewater Servicing	Class Environmental Assessment	EA Notice of Completion	Completed 2021
	Nobleton Wells	Detailed Design	2026
	Nobleton Water Resource Recovery Facility Upgrades	Detailed Design	2027
	Nobleton Sewage Pumping Station Upgrades	Detailed Design	2027

Project Name	Description	Current Status	Expected Project Commissioning Date
Richmond Hill/Langstaff Gateway Regional Centre	Wastewater servicing solution	Substantial Completion	2023
	Water servicing solution	Detailed Design	2024
Richmond Hill/Langstaff Gateway Regional Centre	Wastewater servicing solution	Substantial Completion	2023
	Water servicing solution	Detailed Design	2024
Sutton Water Resource Recovery Facility	New equalization tank and upgrades for plant optimization	Substantial Completion	Completed 2021
	Expansion of existing facility to accommodate growth in Sutton	Detailed Design	2033
City of Toronto Cost-shared Projects	Scarborough Watermain	Warranty	Completed 2021
	Richview Pumping Station Standby Power	Construction	2024
	West Toronto Pumping Station Standby Power	Construction	2023
Peel Region Water Cost-shared Projects	Hanlan Watermain Interconnection	Detailed Design	2023
Peel Region Wastewater Cost-shared Projects	GE Booth Lakeview WWTP Capacity Recovery Project	Detailed Design	2028



LOCATION PLAN
Key Infrastructure Projects
 Capital Infrastructure Status Update
 Water and Wastewater April 13, 2023

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Legend

- Priority Water Projects and estimated completion year
- Priority Wastewater Projects and estimated completion year

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