

ENVIRONMENTAL SERVICES WATER AND WASTEWATER CAPITAL INFRASTRUCTURE STATUS UPDATE

Presented to
COMMITTEE OF THE WHOLE

Presented By
Mike Rabeau
October 14, 2021

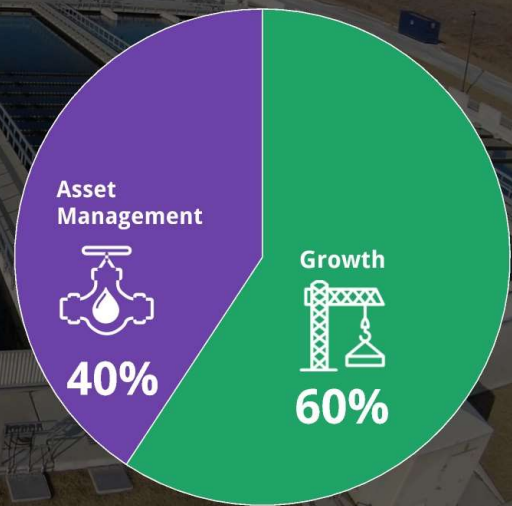
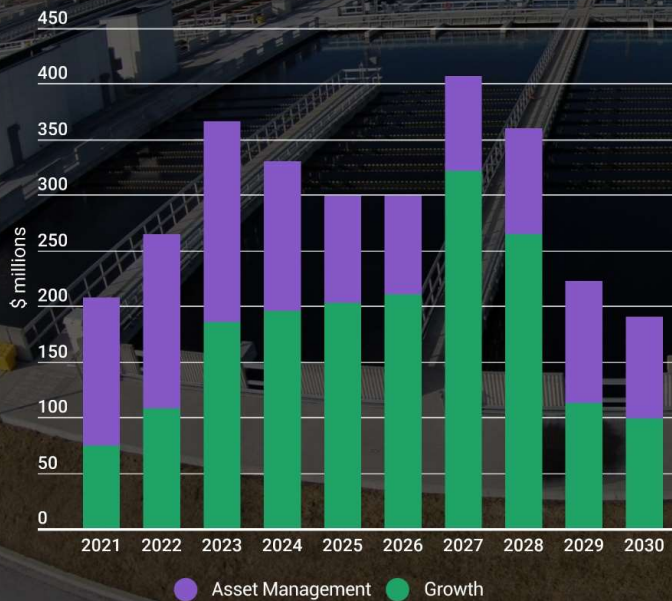


CAPITAL PROGRAM OVERVIEW



Environmental Services 10-Year Capital Plan

\$2.9 B - TOTAL
\$1.8 B - GROWTH
\$1.1 B - ASSET MANAGEMENT

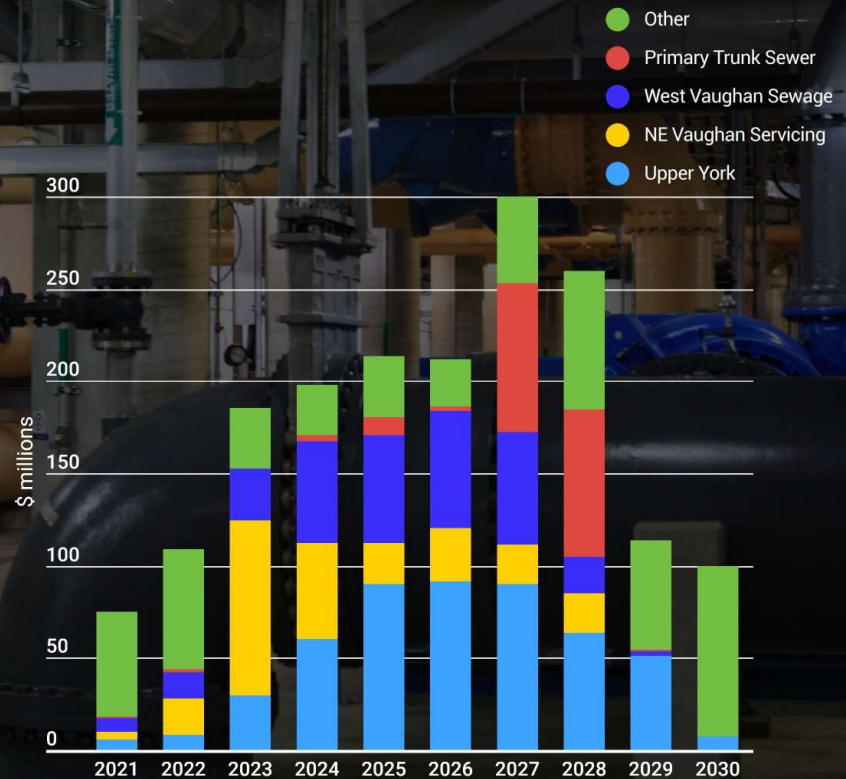




KEY GROWTH INFRASTRUCTURE

GROWTH INFRASTRUCTURE

\$1.8 B

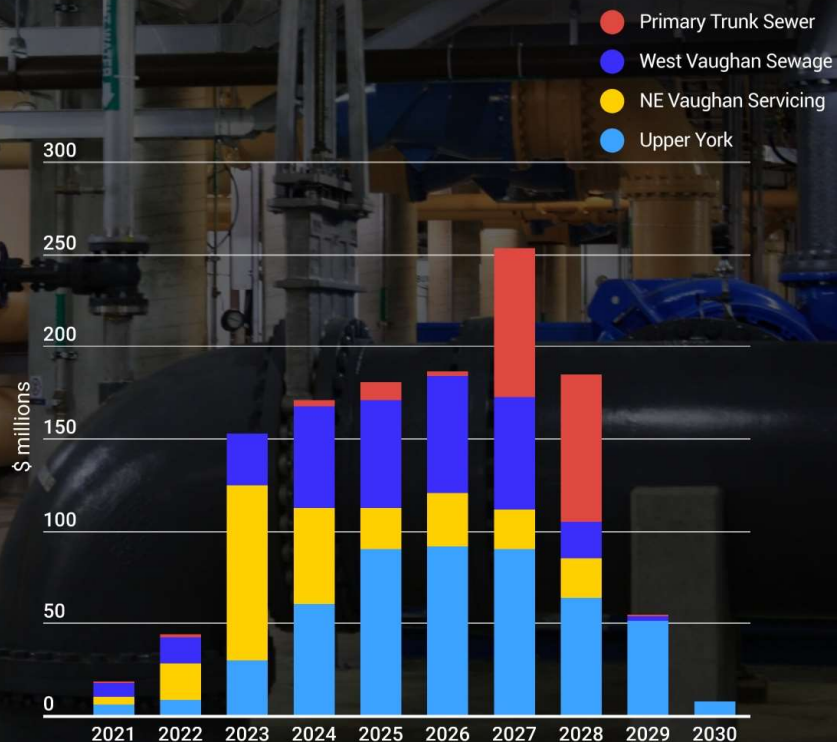


GROWTH INFRASTRUCTURE

\$1.8 B

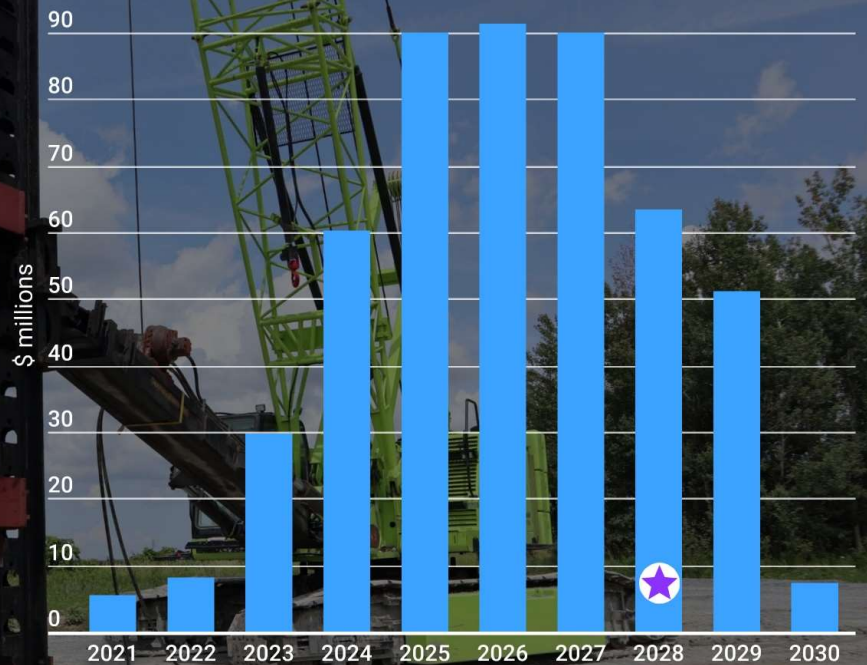


These 5 projects
represent 71% of
growth in the 10-Year
Capital Plan



UPPER YORK SEWAGE SOLUTIONS

\$638.6 M



In service*

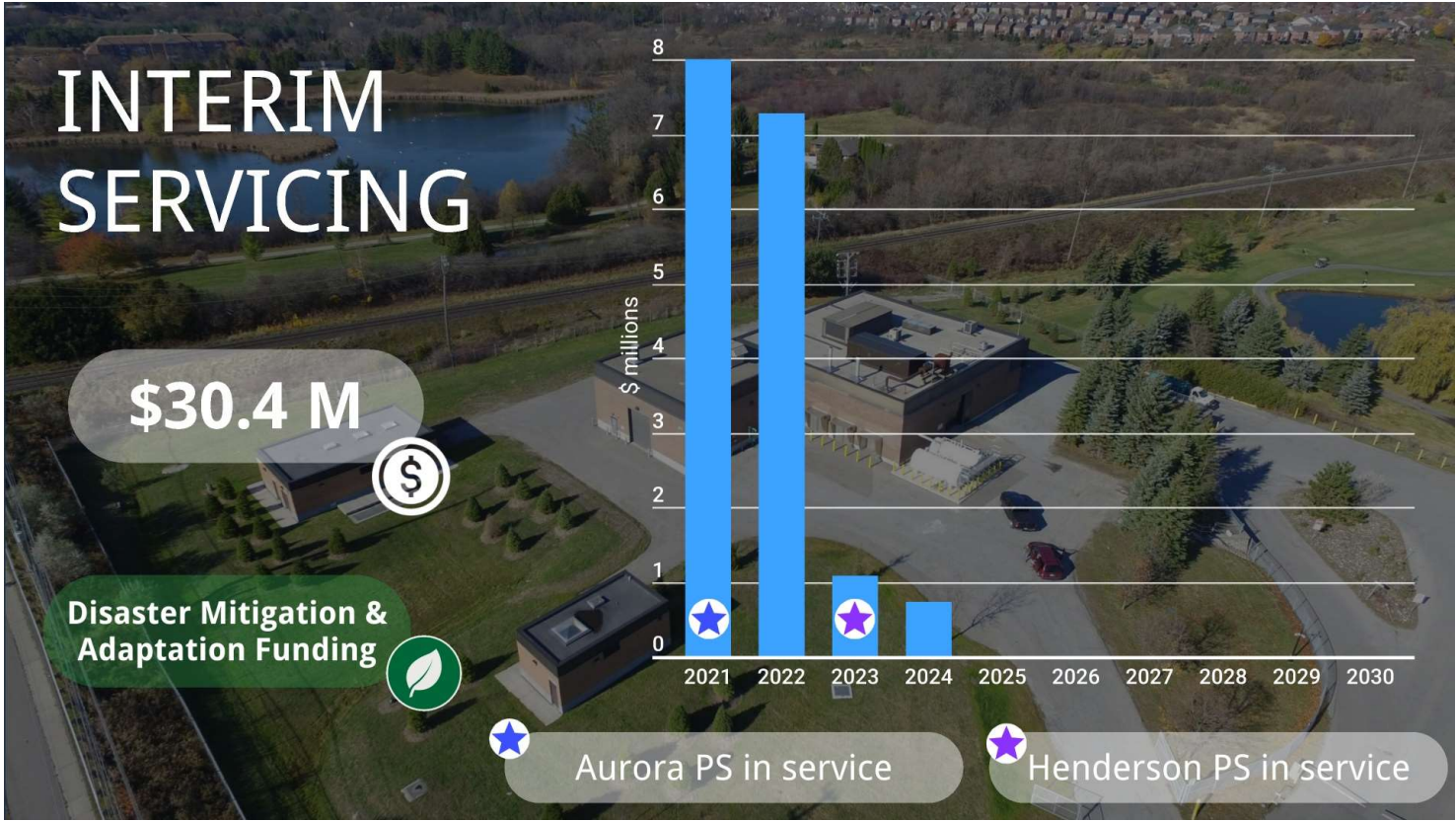
*Timing of completion will be updated as part of the 2022 Budget process

Water Reclamation Centre



Water Reclamation Centre

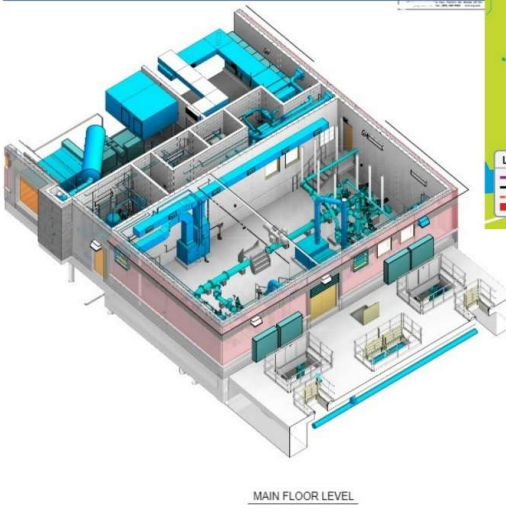
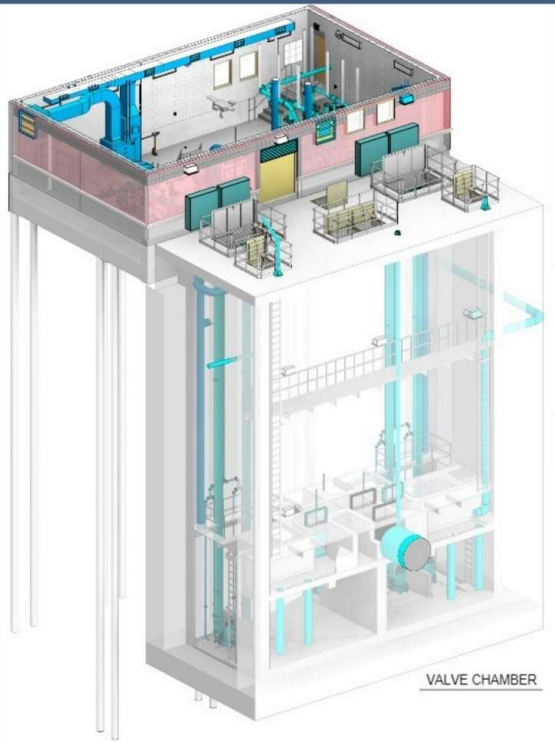




Aurora Interim Sewage Servicing

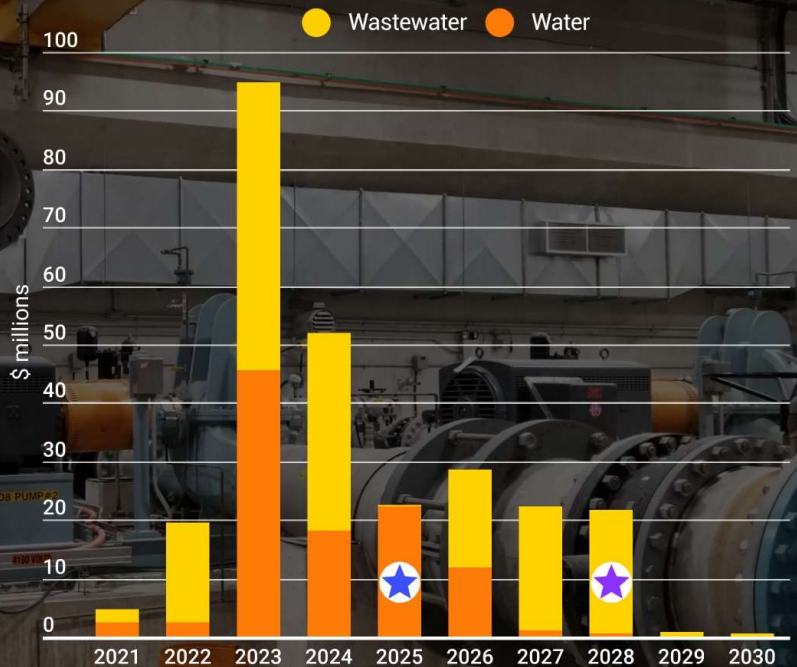


Henderson Pumping Station Construction



NORTHEAST VAUGHAN SERVICING

\$281.5 M



Water and Wastewater Servicing Solution
Partial Advancement Phase 1 in service



Water and Wastewater
Phase 2 in service



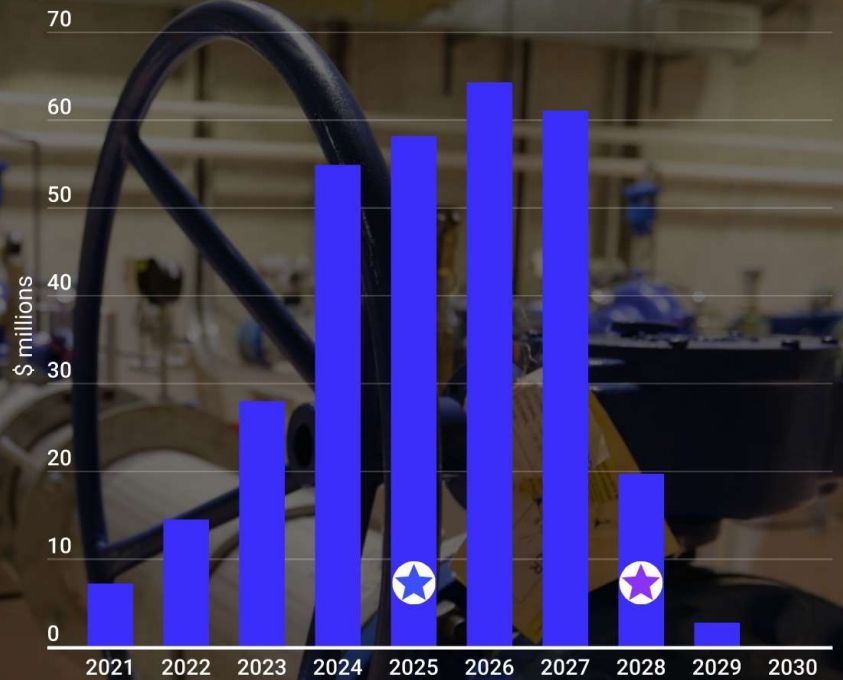






WEST VAUGHAN SEWAGE SERVICING

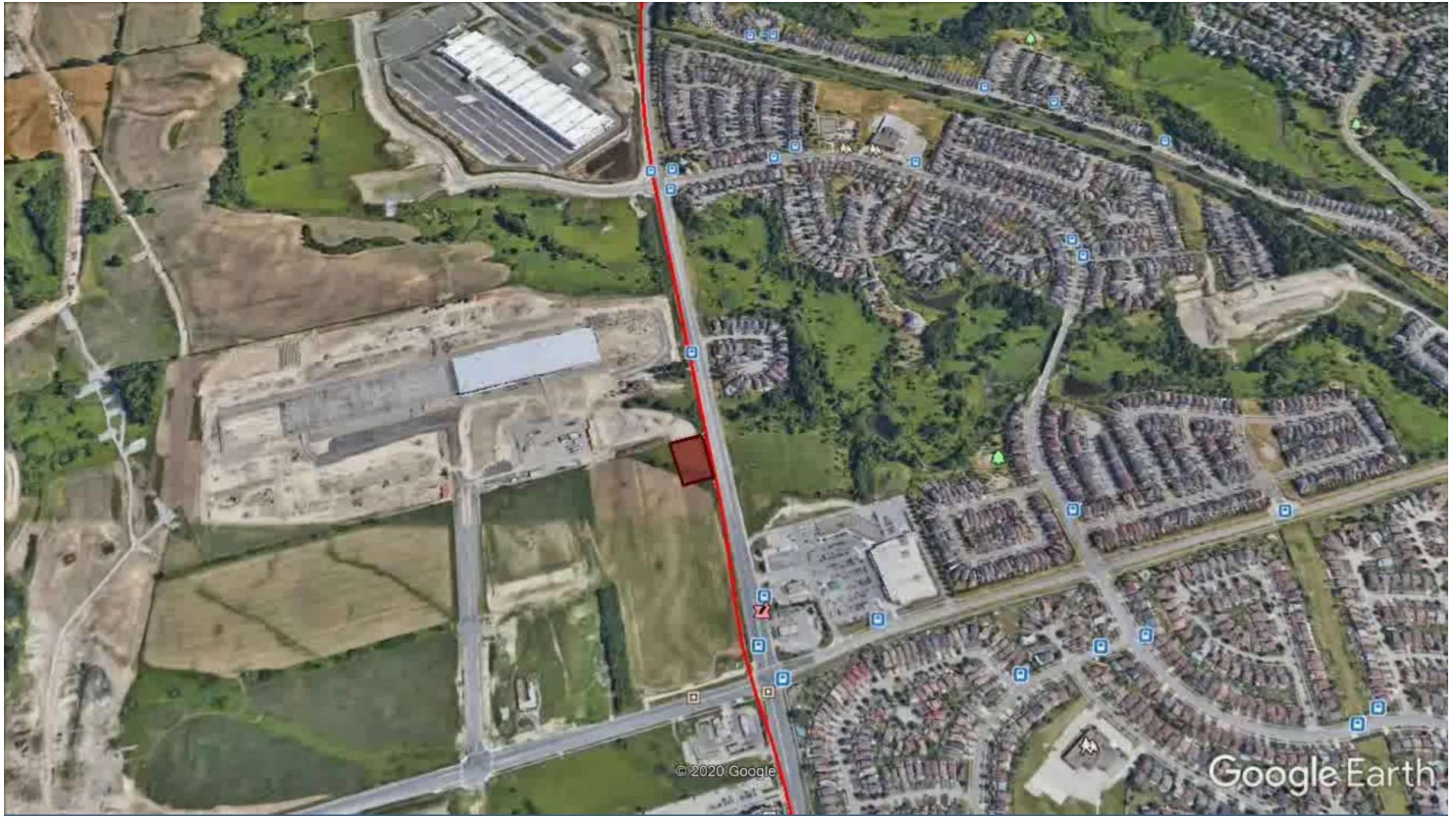
\$400.8 M



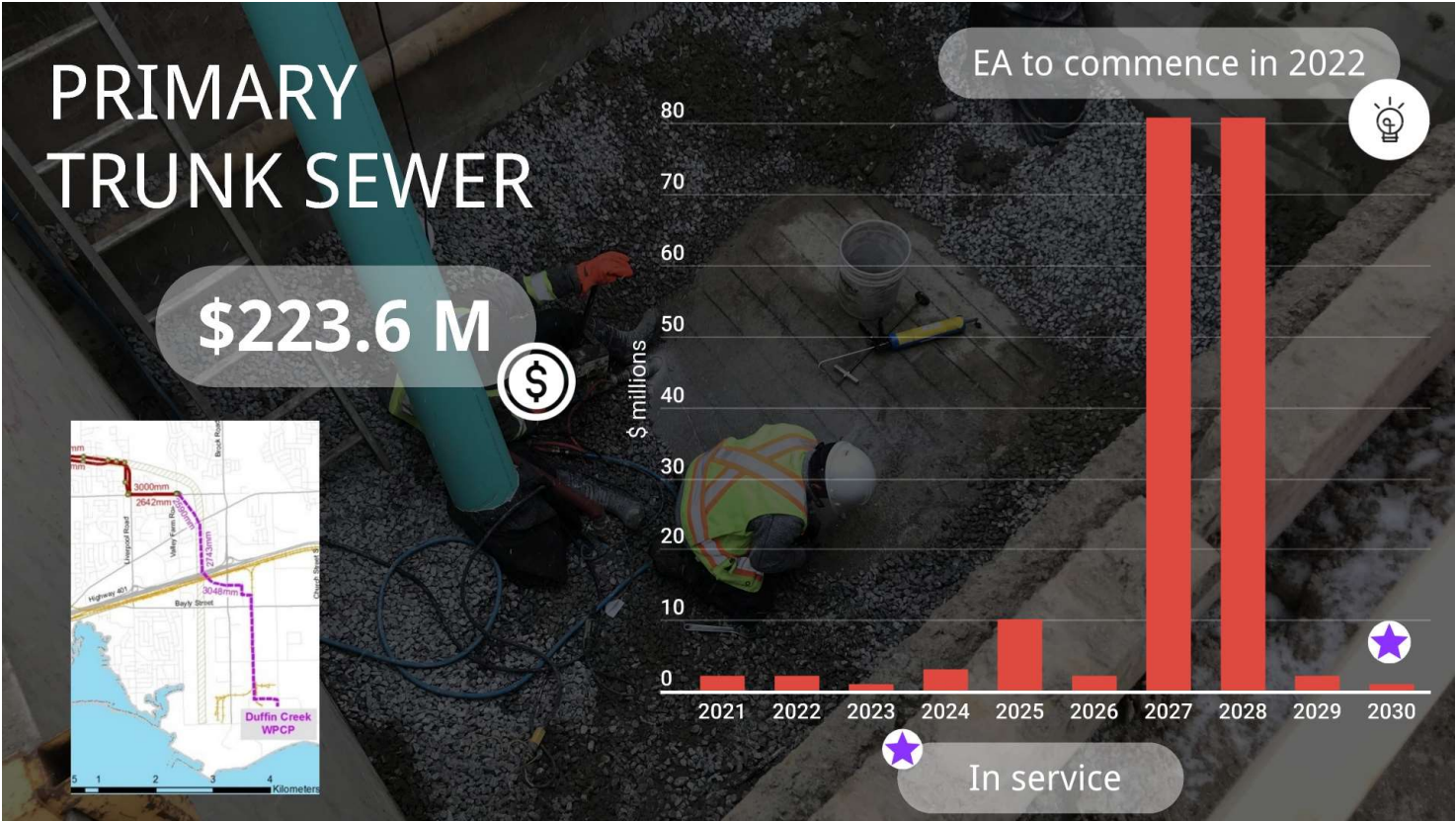
Humber PS in service



Tunnel Phase 1 in service





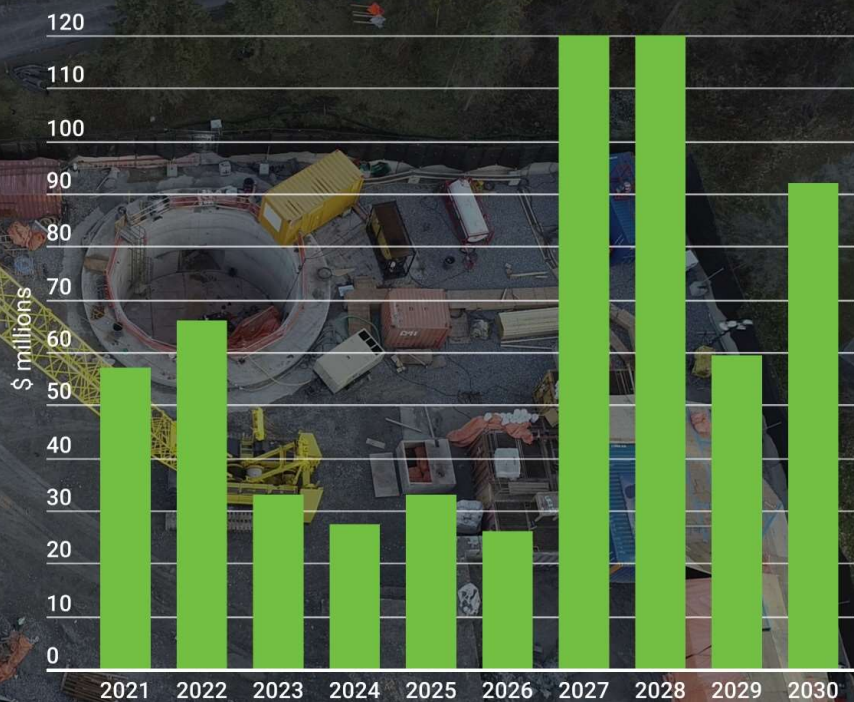


OTHER WATER AND WASTEWATER GROWTH INFRASTRUCTURE



OTHER WATER & WASTEWATER GROWTH INFRASTRUCTURE

\$702.4 M



YDSS Newmarket Forcemain Twinning



Status:
Complete



Project Cost:
\$119.2 M



Completion:
2021

Disaster Mitigation &
Adaptation Funding







Richmond Hill/Langstaff Gateway Servicing



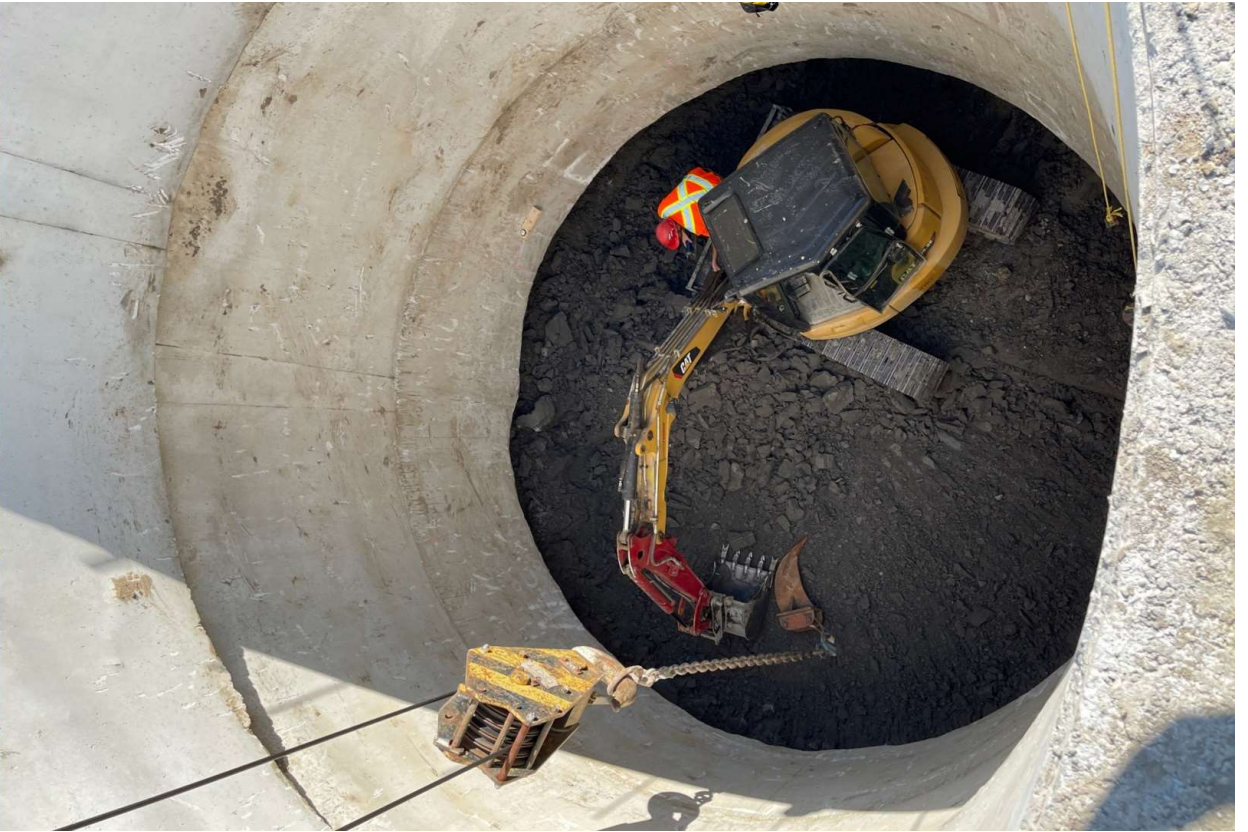
Status:
Construction



Project Cost:
\$33.7 M



Completion:
2023 (Ww), 2025 (W)



Duffin Creek Outfall and PRAP



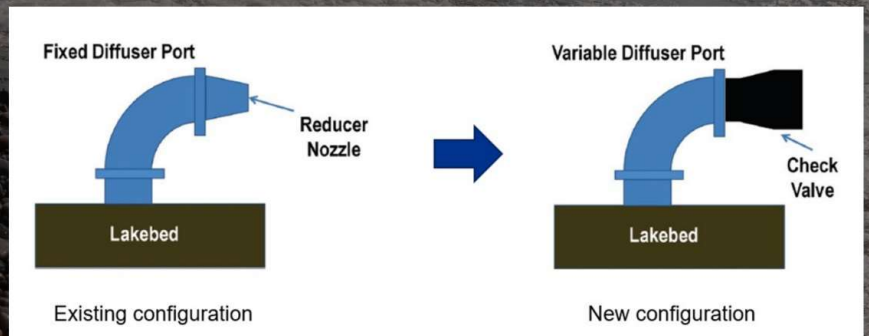
Status:
Construction



Project Cost:
\$21.7 M



Completion:
Outfall: 2022
PRAP: 2024



Duffin Creek Outfall and PRAP

Phosphorus Reduction Action Plan

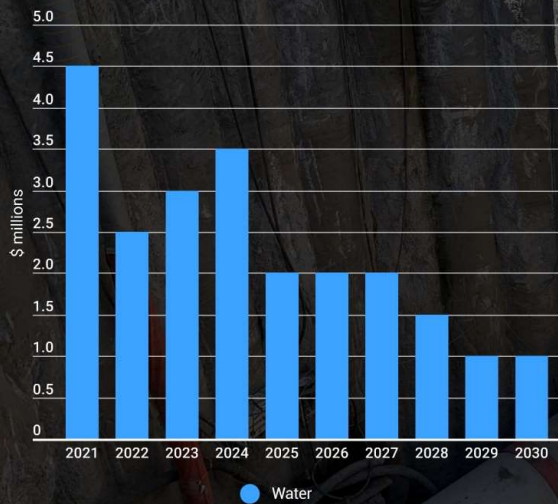


PRAP Dosing Points

- ▼ Ferric Chloride Addition Points
- ▼ New Primary Polymer Dose Points
- ▼ Existing Secondary Polymer Dose Points

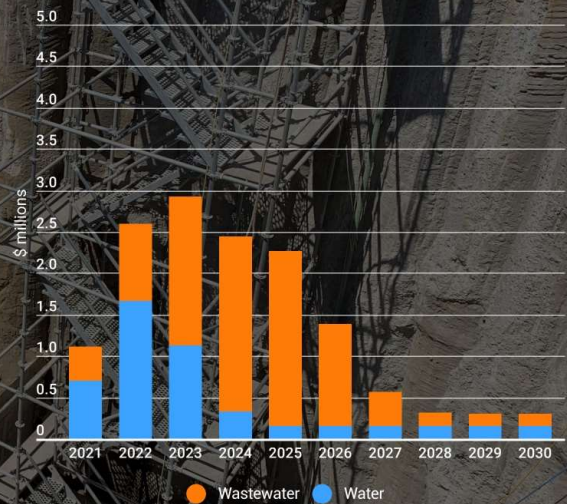


Water and Wastewater Cost-Shared



Toronto Projects (\$23M):

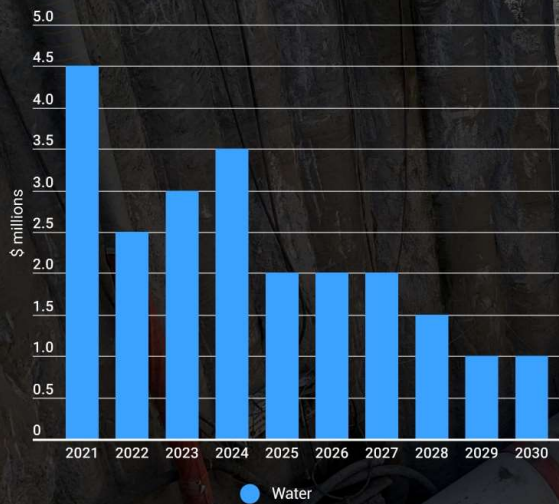
- Scarborough Watermain
- West Toronto and Richview Pumping Stations Standby Power



Peel Projects (W \$3.9M, Ww \$9.2M):

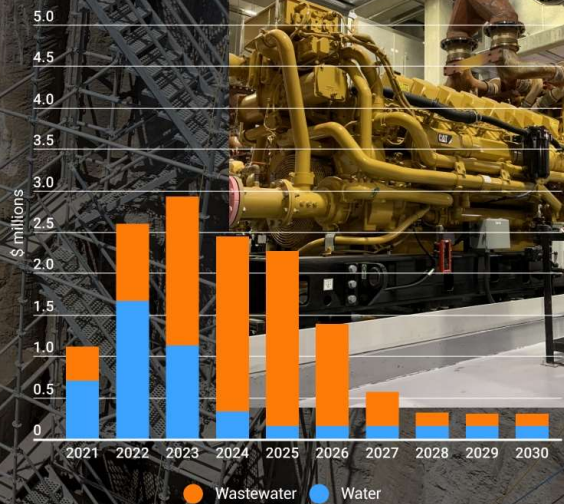
- Hanlan Watermain Interconnection
- GE Booth Lakeview WWTP Capacity Recovery Project

Water and Wastewater Cost-Shared



Toronto Projects (\$23M):

- Scarborough Watermain
- West Toronto and Richview Pumping Stations Standby Power



Peel Projects (W \$3.9M, Ww \$9.2M):

- Hanlan Watermain Interconnection
- GE Booth Lakeview WWTP Capacity Recovery Project

Overview

Sewer

Treatment

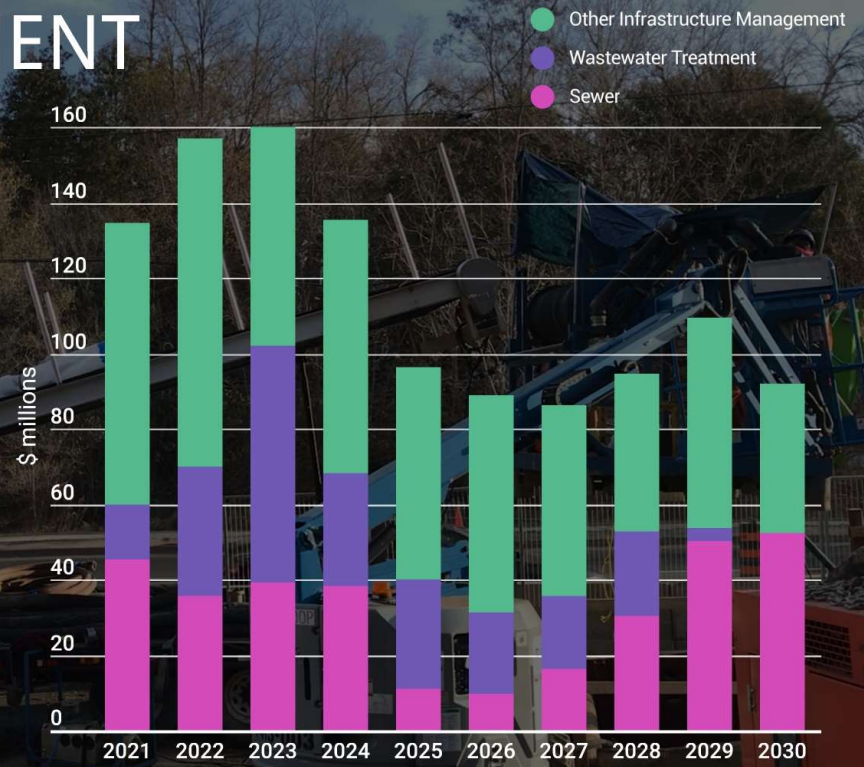
Other

ASSET MANAGEMENT



ASSET MANAGEMENT

\$1.1 B

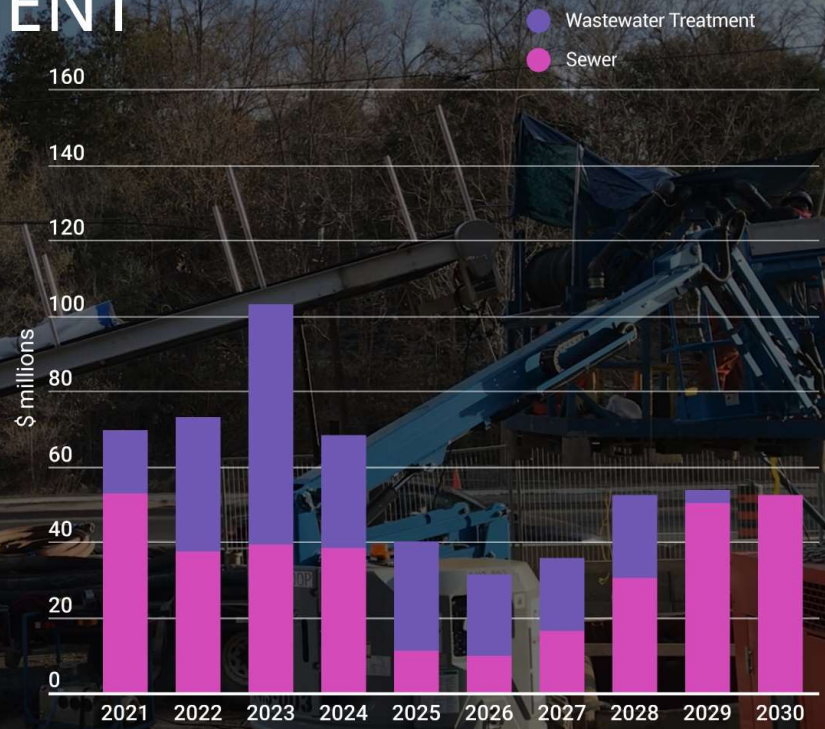


ASSET MANAGEMENT

\$1.1 B

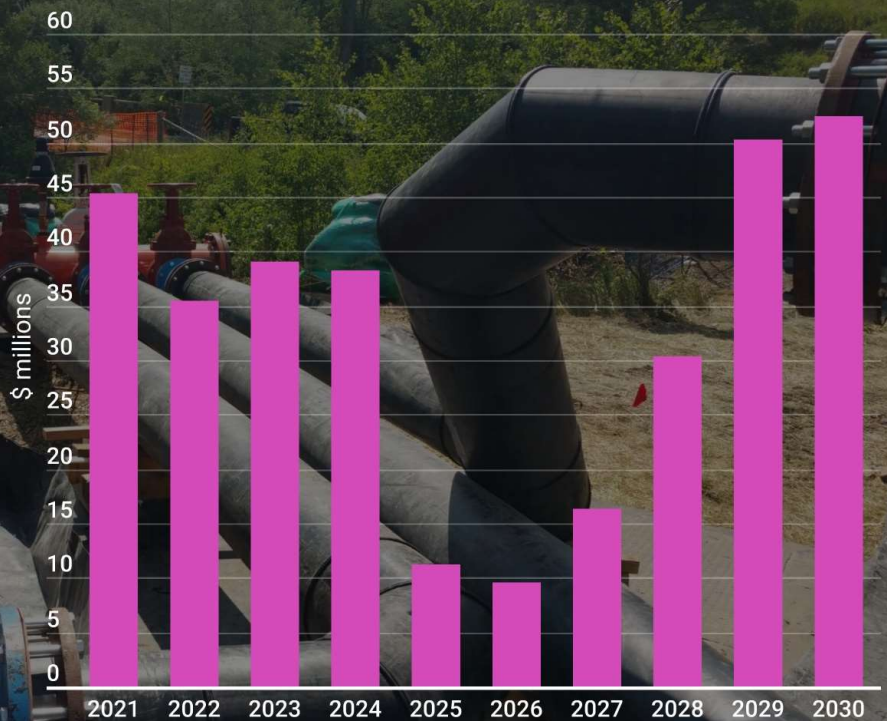


Sewer and Wastewater Treatment represent 51% of infrastructure management in the 10-Year Capital Plan



York Durham Sewage System Rehabilitation

\$328.0 M



16th Avenue Sewer Rehabilitation: Phase 1



Status:
Complete



Project Cost:
\$53.0 M



Completion:
2020

**Clean Water &
Wastewater Funding**



16th Avenue Sewer Rehabilitation: Phase 1



Status:
Complete



Project Cost:
\$53.0 M



Completion:
2020

Clean Water &
Wastewater Funding



16th Avenue Sewer Rehabilitation: Phase 1



Status:
Complete

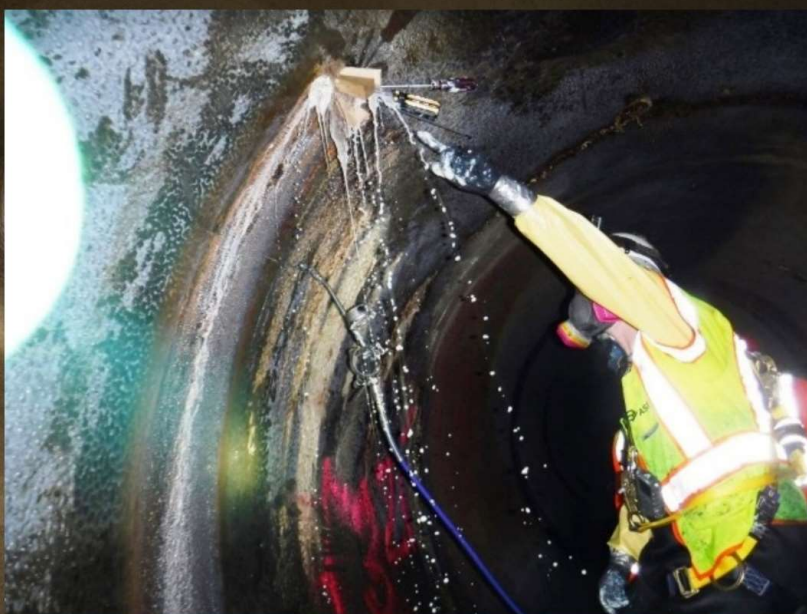


Project Cost:
\$53.0 M



Completion:
2020

Clean Water &
Wastewater Funding



16th Avenue Sewer Rehabilitation: Phase 2



Status:
Construction



Project Cost:
\$ 71.5 M



Completion:
2023









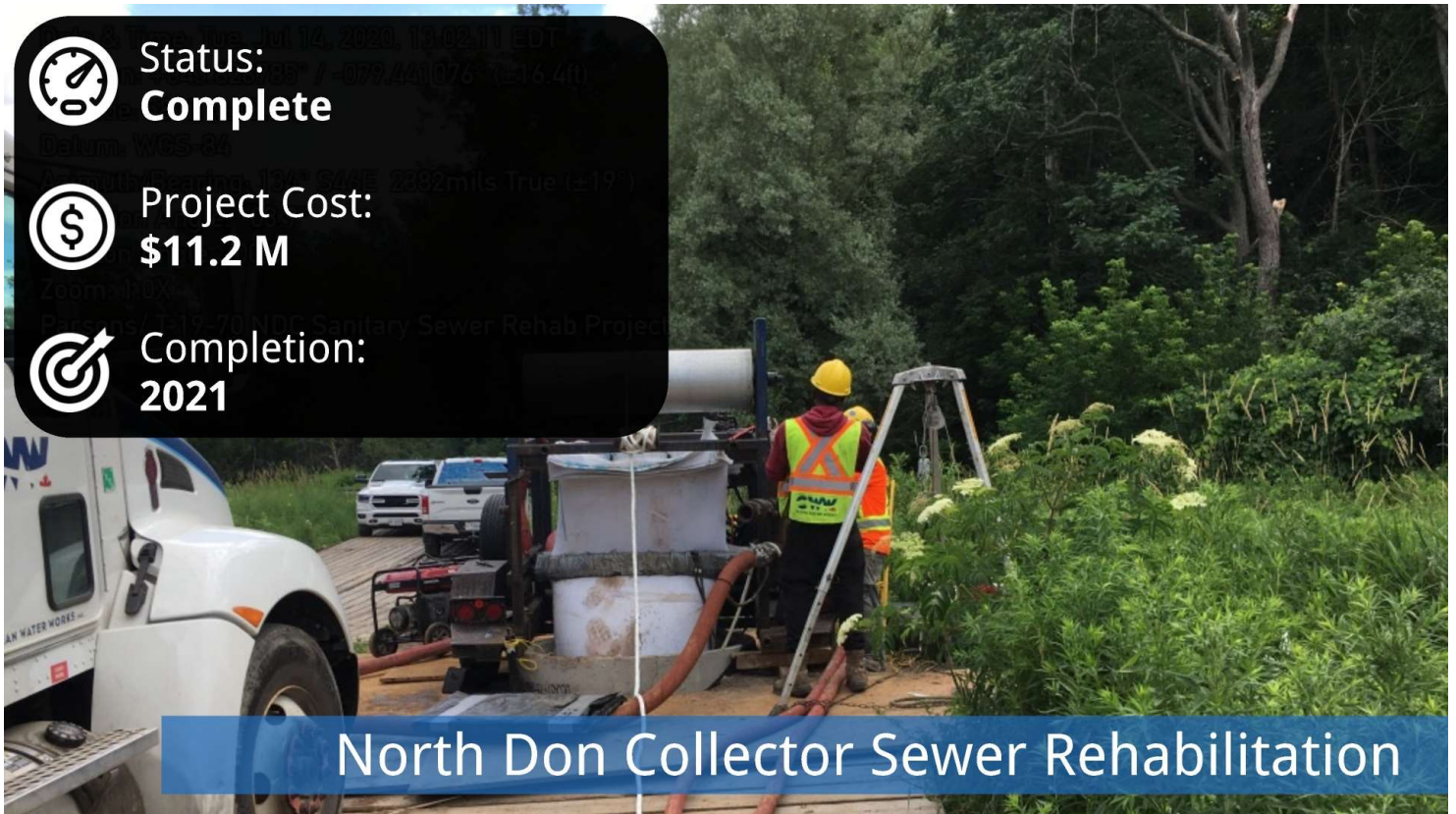
Status:
Complete



Project Cost:
\$11.2 M



Completion:
2021



North Don Collector Sewer Rehabilitation



Status:
Complete

10/7/2020 14:28:07 EDT
005 438049 1532300



Project Cost:
\$11.2 M

Design: WGS-80
Ground Elevation: 100' Spot: 2062mils True (+37%)



Completion:
2021

Parsons T119-70 NDC Sanitary Sewer Rehab Project



North Don Collector Sewer Rehabilitation

Ninth Line Sewer Rehabilitation



Status:
Complete



Project Cost:
\$1.7 M



Completion:
2021

Leslie Downstream Gravity Sewer Rehabilitation



Status:
Construction



Project Cost:
\$4.1 M



Completion:
2021

Humber Jane Trunk Sewer Rehabilitation



Status:
Construction



Project Cost:
\$2.5 M

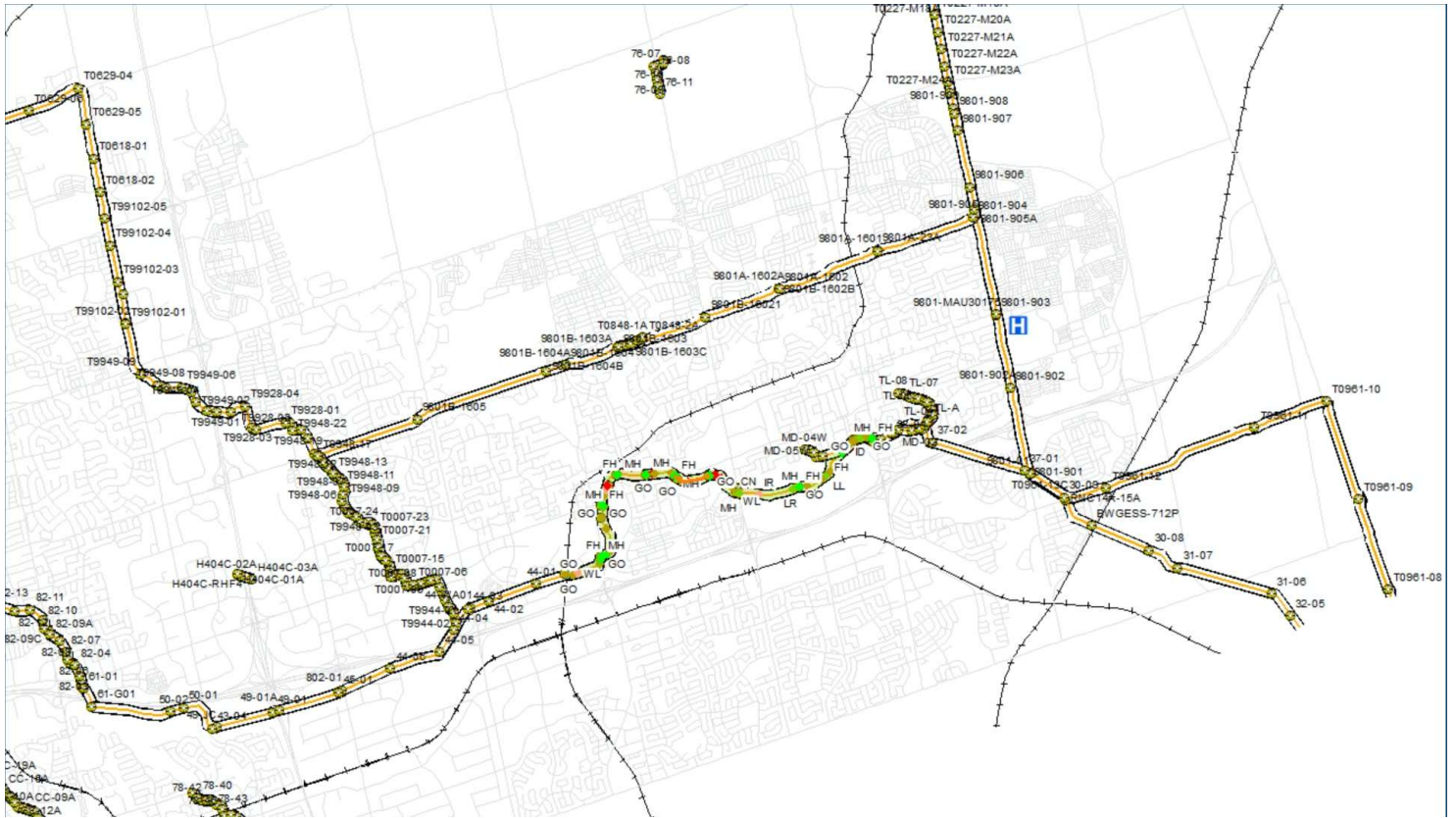


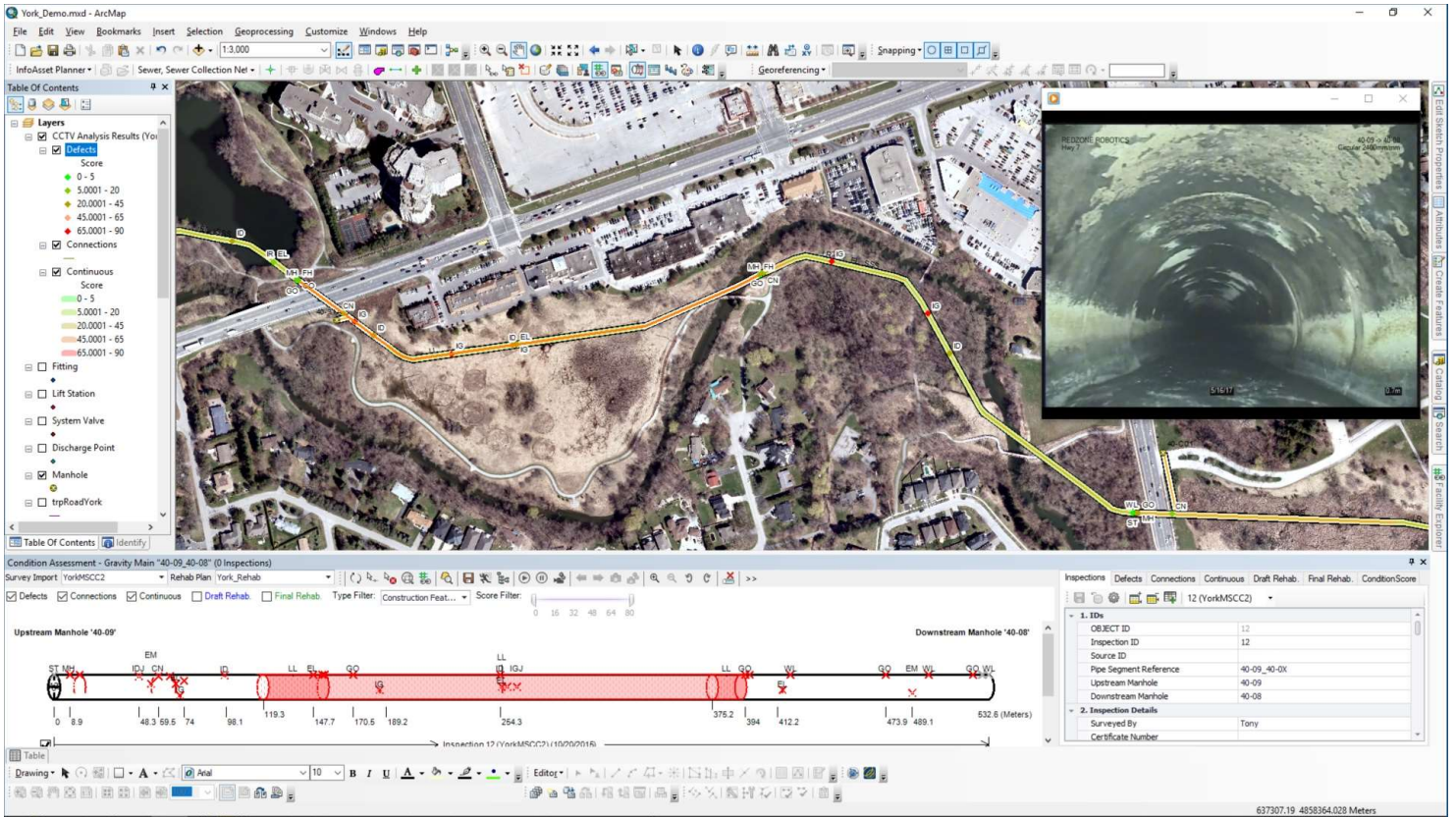
Completion:
2022

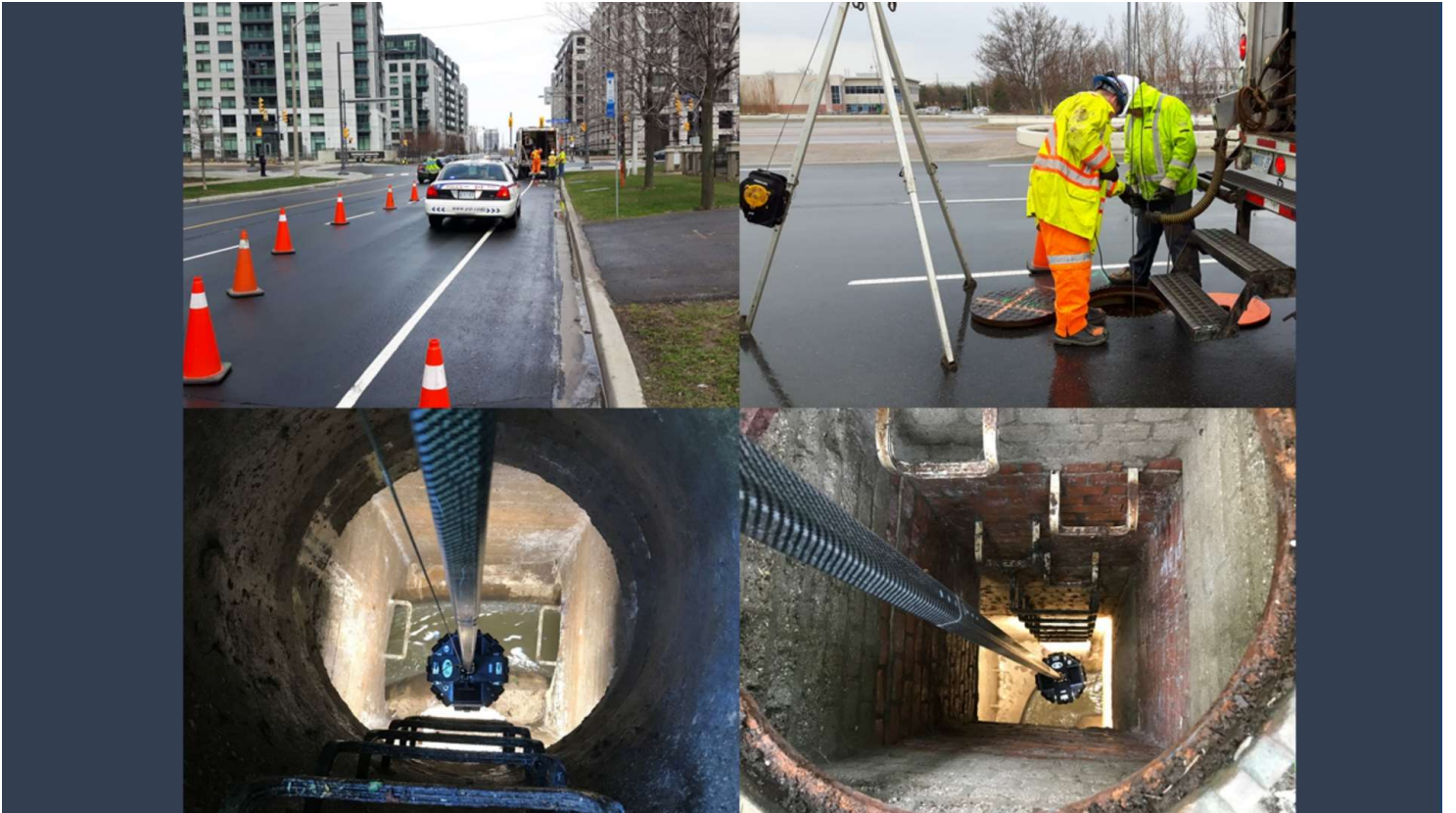


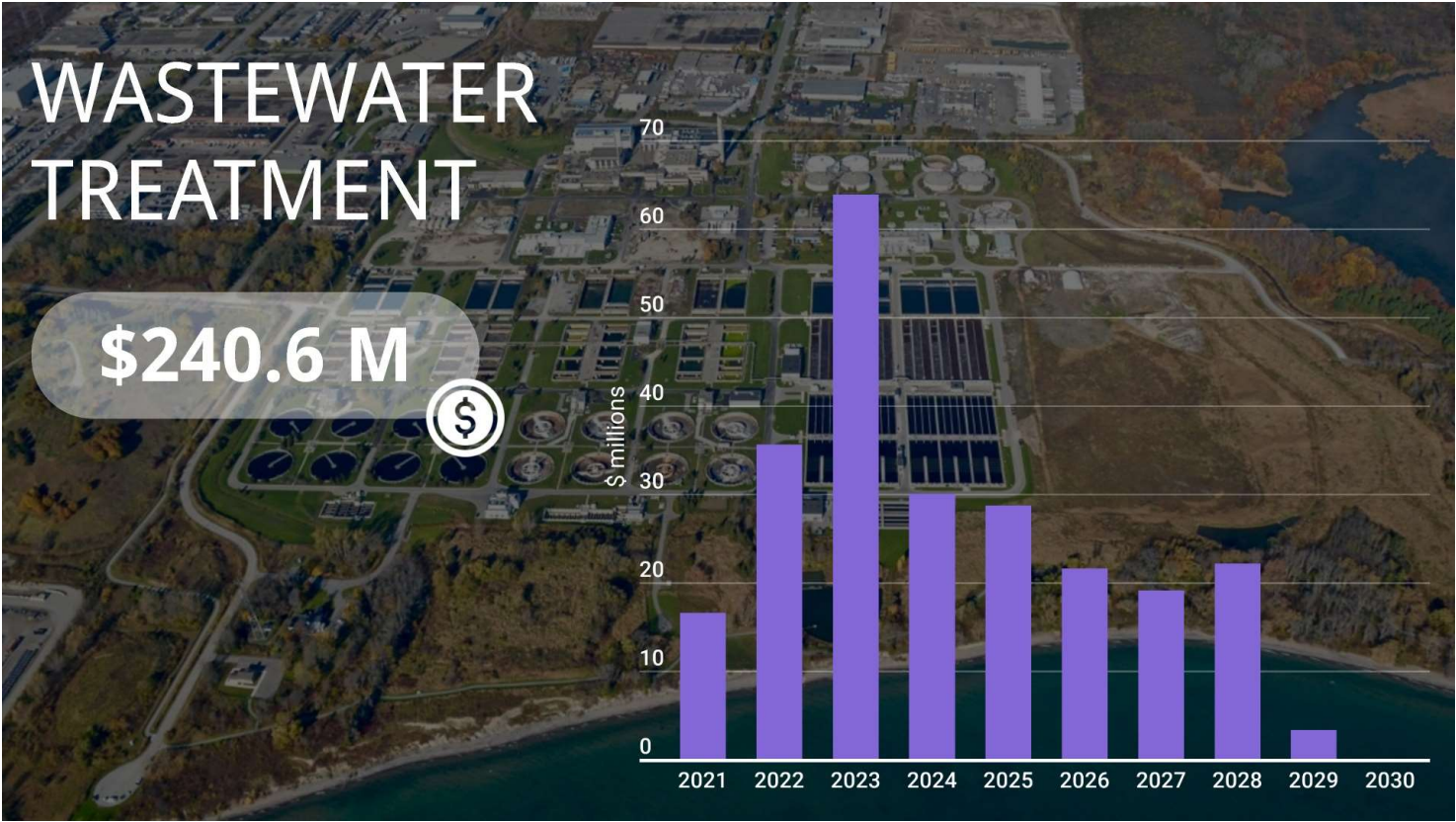
Jane Dufferin Collector Gravity Sewer Rehabilitation













Duffin Creek Incinerators



Status:
Design



Project Cost:
\$207.4 M



Completion:
2028



Sutton WRRF Equalization Tank



Status:
Construction



Project Cost:
\$7.4 M

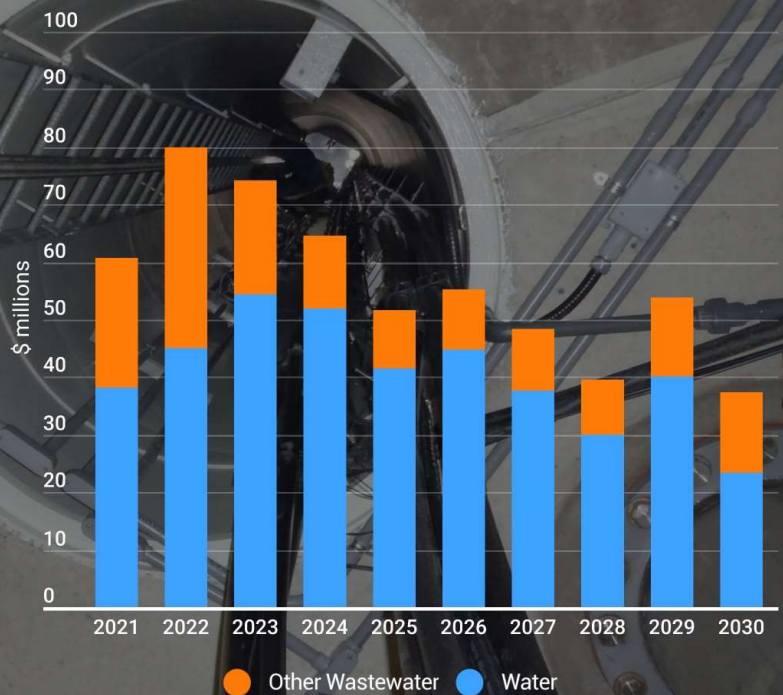


Completion:
2021



OTHER ASSET MANAGEMENT

\$565.7 M



Bayview Pumping Station Upgrades



Status:
Construction



Project Cost:
\$13.5 M



Completion:
2022



Keswick Pumping Station Upgrades



Status:
Construction



Project Cost:
\$24.8 M



Completion:
2024

West Woodbridge Elevated Tank



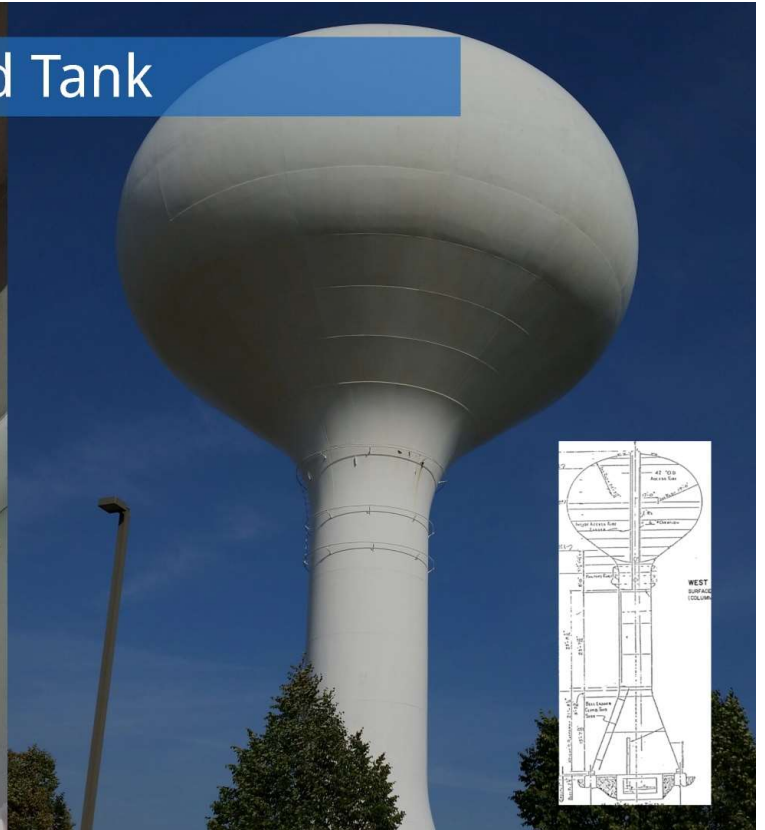
Status:
Construction

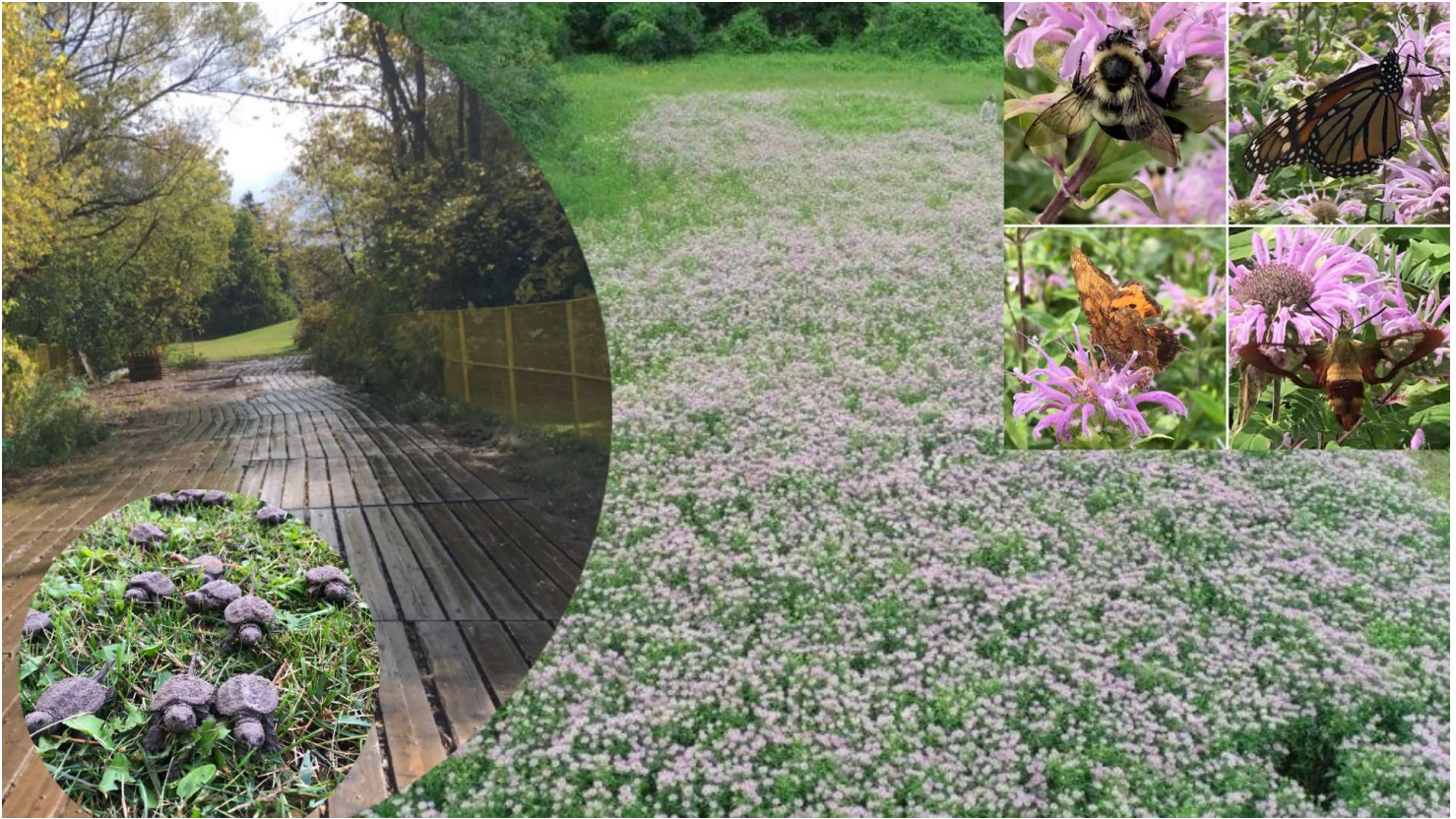


Project Cost:
\$3.9 M



Completion:
2022









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York Region