

Water & Wastewater

2023–2026 Business Plan
and 2023 Budget

Water & Wastewater	1
Executive Summary	3
Services we provide:	3
Interesting facts about this service:	3
Highlights of the Business Plan include:	3
Core Services	4
Vision, Mission, Goals of Service and Service Delivery Model	4
Service Levels and Trends	5
Performance Measures and Results.....	6
Awards and Achievement	7
The 2023 -2026 Business Plan Outlook	8
Planning for the Future	8
Finding Efficiencies.....	10
Transforming Our Business with Technology.....	11
Maintaining our Infrastructure	12
Proposed Operating Budget	13
2023 Operating Budget Pressures	14
Staffing Resources to Achieve Level of Service	15
2023 Budget Risks	16
2024 - 2026 Operating Forecast	17
Proposed Capital Budget.....	18
2023 Capital Budget Overview	18
Proposed Capital Plan	20
By Project Classification:	20
Budget Requests	21

Executive Summary

Mission: Providing Clean Water for Life

Services we provide:

- Planning, design, construction, operation and maintenance of water and wastewater infrastructure including treatment plants, water transmission & distribution and pumping systems, reservoirs, elevated tanks and wastewater collection systems etc.
- Management of all water and wastewater programs including strategic planning, asset management, regulatory compliance and public education.
- Water meter installations and billing services

With a continued focus on quality of service, customer service, asset management, service delivery, and our people and culture, the Water & Wastewater Divisions are poised to continue to provide responsible water and wastewater infrastructure services.

Interesting facts about this service:

- Our water and wastewater infrastructure is one of the largest assets owned and operated by the Region with a replacement value of \$26 billion.
- The Region produces on average 590 million litres of safe drinking water and treats 660 million litres of wastewater every day.
- The Region maintains 4,700 km length of watermains and 3,710 km length of sanitary sewer mains.
- We inspect 15,000 hydrants and 475 km of sewer mains every year.
- The Region provides services to 339,000 water accounts and 333,000 wastewater accounts.

Highlights of the Business Plan include:

- Updating the Water and Wastewater Master Plan to accommodate growth to 2051
- Implementing a long term financial plan for Water and Wastewater
- Aligning business ventures to our 10-year Strategic Plan
- Developing and assessing a Water Environment Association Utility of the Future model
- Developing ESG (Environmental Social and Governance) goals and metrics
- Progressing toward ISO 45001 Compliance for Occupational Health & Safety Management system for Water and Wastewater
- Embracing innovation, investing in people and delivering value
- Developing a District Energy system utilizing thermal energy contained in treated wastewater effluent to provide a low carbon energy source to service the future Lakeview Village Development.
- Maintaining service levels by making operating investments, and improving customer service through Lean initiatives

Net Investment (\$000s)	2023	2024	2025	2026
Operating (Peel required billings)	488,217	523,811	557,860	593,700
Capital	641,442	1,004,575	1,000,167	1,111,235
Full Time Equivalents	591.7	613.1	619.9	623.1

Core Services

Vision, Mission, Goals of Service and Service Delivery Model

Vision

To deliver a world-class Water and Wastewater service network while respecting the environment and employing the resource recovery principle

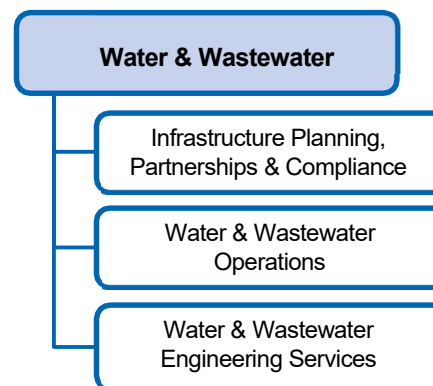
Mission

Providing Clean Water for Life

Goals of Service

1. Deliver value by providing consistent water and wastewater services, while maximizing our assets and meeting the needs of our current and growing community
2. Embracing innovation by seeking opportunities to enhance quality, maximize value and build strong partnerships and create collaborative projects
3. Invest in people by inspiring leadership within all of us that empowers employees to achieve success, while holding each other accountable in a safe and secure working environment
4. Respecting the environment by considering it in all decisions we make and protecting the sources of our drinking water and the natural environment

Service Delivery Model



Service Levels and Trends

Service Levels

The management of infrastructure assets is accomplished through several operational activities; the existing service levels for these activities are summarized below:

Infrastructure Programming: Develop an appropriate 10-year Capital Budget in accordance with Growth Management and lifecycle asset management practices and meet budget preparation and construction timelines.

Long-range Planning and Policy Development: Develop and implement appropriate plans and strategies to guide decision-making.

Water & Wastewater Master Plan: The municipality's Water & Wastewater Master Servicing Plan is being updated and identifies capital and asset needs which will allow the Region to achieve its growth vision by planning infrastructure for 2051. The plan is aligned to the Region's Growth Management Plan and includes over \$7 billion of capital projects to facilitate growth and ensure the Region's water and wastewater assets are maintained in a state of good repair.

Environmental Focus: To ensure compliance with environmental legislation and preserve and enhance the environment and to embrace innovative measures to maximize resource recovery.

Regulatory Compliance: To meet or exceed all regulatory requirements within the water and wastewater environment

Operational Excellence: To meet service levels and build trust and confidence within our community

Trends

Peel continues to mature as a Region. Aging infrastructure, public demand for safe, reliable and high quality drinking water and the need to balance service levels with affordability pose significant pressures and challenges for this service area. The Water & Wastewater Division, in partnership with Enterprise Asset Management, continues to work on the Asset Management Plans for the Region's infrastructure to meet the requirements of Ontario Regulation 588/17, *Asset Management Planning for Municipal Infrastructure*. The Asset Inventory and Management Program will accelerate the Region's current plans to prepare inventories, condition assessments, replacement values, and management plans for all Region-owned assets within municipal Water & Wastewater and other rights-of-way.

Expansion of GE Booth water resource recovery facility



Performance Measures and Results

The Region of Peel is committed to delivering services economically and efficiently. The Region's performance measures are used to help assess how well we are doing at achieving our goals and where we need to improve operations. The results also inform decision-making and strengthen accountability.

Below are descriptions of the measures tracked in the Water & Wastewater Balanced Scorecard.

Financial Measures: Average water treatment and transmission cost per million litres of water produced and average wastewater treatment and collection cost per million litres of wastewater treated are measures of the municipality's ability to manage cost pressures associated with aging infrastructure, while providing consistent services levels. Percentage of water and wastewater rate compared to GTA average is a measure of Peel's ability to deliver water and wastewater service in a competitive manner.

Average water treatment and transmission cost: The average cost for water treatment and transmission per million litres of water supplied. For 2021, the cost was \$388.48 per million litres.

Average wastewater treatment and collection cost: The average cost for wastewater treatment and collection per million litres of wastewater treated. For 2021, the cost was \$208.28 per million litres.

Percentage of water and wastewater rate compared to GTA

average: Peel's water and wastewater rate for an average household as a percentage of the neighbouring municipalities in GTA, including city of Toronto, York, Halton and Durham. For 2022, the percentage was 67% of, or 33% lower than the GTA average.

Customer Measures: The Region continues to have the lowest Water and Wastewater rates in the GTAA. Lower rates have provided affordability to the 1.5 million residents and over 175,000 businesses located within the Region of Peel.

Employee Measures: The Corporate Employee Engagement Survey is completed once every three years and was recently completed in 2021.

Overall job engagement indicates the extent to which employees feel engaged in decision-making at the municipality.

Employee satisfaction measures the extent to which employees value, enjoy, and believe in what they do.

Business Process Measures: Percentage of Water & Wastewater infrastructure in good condition or better measures the Region's ability to manage lifecycle asset management programs for Water & Wastewater.

Awards and Achievement

Awards

2021 Tunnelling Association of Canada's Canadian Project of the Year Award (Over \$100M CAD): The Burnhamthorpe Water Project, Contract 1/2 was selected as the Canadian Project of the Year. The Award is given to a team who has significantly contributed to a Canadian project that has demonstrated the highest level of engineering service and skill and shown insight and understanding of underground construction in Canada.

2021 North American Trenchless Technology Awards: Honourable Mention for The Fletcher's Creek Trunk Sewer project.

Trenchless Technology magazine: The Condition Assessment and Rehabilitation group had an article written highlighting the work their group is conducting to ensure that our water and wastewater infrastructure remain in good condition.

Investing in Canada Infrastructure Program (ICIP) COVID-19 Resilience Infrastructure stream – Local Government Intake: In Spring 2021, the federal government approved Peel Region's application for funding for the East Sanitary Trunk Sewer and Energy Dissipation Chamber (EDC) Rehabilitation project. \$8 million was awarded in federal and provincial funding to support the execution of this important project.

Achievements

During COVID, the Water & Wastewater Division continued to deliver quality service and capital projects. Staff worked every day of the pandemic, adhered to safety protocols and minimized the effects of COVID on our day-to-day operations.

Execution of the Inflow and Infiltration (I/I) strategy in the first three areas within the Region has resulted in the reduction of I/I from the wastewater system. Progress continues within the priority areas.

Partnering with Lakeview Community for the construction of a District Energy system using wastewater effluent contributing to environmental sustainability.

Partnering with Health in the Provincial Wastewater Surveillance Program for the detection of COVID 19 in Wastewater.

Every year the Ministry of the Environment, Conservation and Parks performs comprehensive inspections of all seven municipal drinking water systems in the Region. The most recent complete inspection report rating is 99% demonstrating excellent performance.

Achieved compliance with first and second phases of new excess soil regulations. This work ensures the proper management of excess soil on Regional construction sites; recognizing excess soil as a valuable resource; and preventing the improper disposal of construction soil, that inhibits the contamination of clean sites and reduces illegal dumping.

A new water and wastewater billing rate structure was approved by Council which, based on industry best practices, will provide more customer equity along with revenue and bill predictability.

Council endorsed water bill adjustment pilot program, which will help residents address the financial burden resulting from an unexpected high-water bill due to a leak.

The 2023 -2026 Business Plan Outlook

Planning for the Future

Intensification vs Green field development

Much of the infrastructure planning in the Water and Wastewater is based on the urban planning goals of the local Municipality and Provincial population allotments under Places to Grow legislation. The current Master Servicing Plan will address the increasing rate of intensification which is quickly becoming an emerging issue in Peel and other cities. Intensification comes with many benefits including more effective use of transit, jobs and tax revenue. However, adding new infrastructure into these areas comes with challenges not typical to green field development. In attempt to minimize Peel's financial exposure and to ensure Peel is not over building infrastructure in new green field areas, the Divisions will align the planning and construction with Regional growth plan.

Asset Management

In 2017, the Province of Ontario introduced Ontario Regulation 588/17, Asset Management Planning for Municipal Infrastructure, which came into effect on January 1, 2018. The regulation required all municipalities to prepare and publish the following: a Strategic Asset Management Policy by July 1, 2019; enhanced Asset Management Plans for core infrastructure – which includes Water & Wastewater– by July 1, 2021; and enhanced Asset Management Plans for all remaining non-core assets by July 1, 2023.

On June 5, 2019, the Region's Strategic Asset Management Policy was approved by Council and in 2020, the Water & Wastewater Division, in partnership with the Enterprise Management Office, has worked towards completing the Asset Management Plans for the Region's Water & Wastewater Infrastructure.

Service Delivery

The municipality has grown substantially over the last 20 years and development continues to intensify. In addition, demand for Water & Wastewater maintenance and higher service levels is increasing. In order for the Water & Wastewater Service Area to meet maintenance and operational service levels in the coming years, a Maintenance Master plan is being developed to ensure assets are being maintained at an appropriate level in both a short and long term timeline.

To ensure infrastructure projects are delivered efficiently and in a timely manner, staff collaborated with Toronto and Region Conservation Authority and Credit Valley Conservation Authority to establish an agreement for expedited review and enhanced support of environmental assessments and permits.

Climate Change

Climate change continues to generate more frequent and intense localized storms. The impact of these storms on Regional waterways, municipal storm water management systems and in the form of inflow and infiltration in the Regional sanitary sewers will continue to put pressure on the performance of the sanitary sewer system.

Currently the programs are focusing on the top inflow and infiltration areas to reduce the risk of basement flooding while also conducting sewer condition assessment, rehabilitation and expansion to address excess flows.

The programs are moving forward with construction of the East-West diversion sewer to manage excess flows between the Region's water resource recovery facilities during severe rainfall events.

As approved by Council, the program is working with Enwave Energy Corporation ("Enwave") to facilitate a District Energy ("DE") system to service the future Lakeview Village Development. The DE system will utilize thermal energy contained in treated wastewater effluent from the G.E. Booth Wastewater Treatment Facility to heat and cool buildings within the Lakeview Village Development.

The DE system represents a significant partnering opportunity and is strategically aligned to the Region's Climate Change Master Plan. The Jim Tovey Lakeview Conservation Area is the creation of a 64-acre natural waterfront park adjacent to the G.E. Booth Wastewater Treatment Plant. Construction is expected to be completed by 2025. The park will feature large wetlands, meadows, beaches and forests. Excess fill generated from Region of Peel capital projects are delivered to this site for sustainable reuse. As of June 2022, over 1,780,000 m³ of excess soil and concrete rubble have been diverted

from landfill for sustainable reuse. This represents an estimated 9,200 to 11,300 tonnes of avoided greenhouse gases.

The program is also actively reducing greenhouse gas emissions by investing in green fleet technology and enhancing staff awareness on the GHG impacts of excessive idling. To date, the Region has 105 green vehicles in its fleet and has reduced excessive idling by 9,000 hours from the first four months of 2021 to the first four months of 2022, which equates to a 13% GHG reduction.

Finding Efficiencies

Continuous Improvement

The objective of the Region's Continuous Improvement Program is to optimize service delivery and maximize value for tax dollars spent. The completion of continuous improvement initiatives positively impacts client experience, employee engagement, cost savings and cost avoidance.

Highlights of the many projects and improvements completed include:

- The program is actively participating in Industrial Conservation Initiative (ICI) to look for opportunity to obtain lower energy rates from the Province by reducing energy consumption at water and wastewater facilities on peak demand days. In 2022 and 2023 one time savings of \$6.6 million and \$8.6 million are anticipated respectively. Continuous efforts are required to ensure the savings are materialized.
- An online billing portal was introduced to improve customer experience in receiving and paying water bills through a digital platform. A savings of \$100,000 will be achieved through the implementation of the portal, primarily driven by reduction in paper and postage cost.
- Replacing the ignition software at the plants to Improve Decision Making in the Operations and reduce the annual software license fee by \$28,000.
- The LED lighting replacement program in Wastewater treatment facilities achieved Energy cost savings of \$13,000.



Transforming Our Business with Technology

Technology plays a critical role in the delivery of efficiencies for the Water & Wastewater Service Area. Through updating existing technology systems and bringing new systems online, the Water & Wastewater Service Area will continue to improve service delivery and focus on increasing efficiencies, for internal business processes and for our residents as well.

Achieving Cost Savings and Driving Efficiencies:

Membrane gravity filter installation

- In the Lorne Park Water Treatment Plant, one of four conventional filters using granulated activated carbon (GAC) were replaced with membrane gravity filters. These membrane modules (approximately 1900 modules) will be recycled and diverted from a landfill and reused. Capital cost savings (20-year ROI) due to GAC media operating and replacement costs.

Installation of Smart Flow Meters

- Replacing out of date flow meters with smart magnetic flow meters. These smart flow meters can self-verify and provide remote reports. This initiative will save staff time traveling to each meter location, improve data integrity, and detect water leaks in the water transmission system.

Leveraging Technology to Improve Service Delivery:

In order to maintain current service levels and enhance worker safety with the onset of COVID-19, Operations launched digital work orders.

Optimizing operating processes through digital tools resulted in paperless operations and on-line work dispatching and approvals. This initiative facilitated a remote work environment for support staff.

Implementing a new decision support system to support Enterprise Asset Management

- A data driven decision support system that leverages the data from various sources including future climate and its impact is currently being implemented. This system will allow for evidence informed decision making regarding asset renewal and long term financial forecasting and will be a direct input in to water/wastewater rates calculations.

Testing innovative methods to optimize watermain replacement and repairs

- Faced with increasing challenges of reducing watermain breaks, disruption to residents and business', and to meet Council approved level of service, Region of Peel engaged innovative methods to plan and optimize strategic investment in the water distribution network. The Region utilized machine learning (ML) and artificial intelligence (AI) to make evidence informed decisions for asset management and infrastructure planning. With the use of this innovative technology, the Region identified pipe cohorts that are most at risk of failure and the conditions under which network failures occur using historical data.

- This approach allows the Region’s SOGR team to (a) have a better understanding of the network’s degradation over time, (b) tailor inspection plans and replacement programs and, (c) optimize water main investments in order to provide an improved level of service. An AI/ML-approach has aided our team in planning and optimizing strategic investments in the water distribution network with an aim to reduce impact to business and residents and provide a reliable service.

Leveraging Technology to Enhance Customer Service:

Technology is also being leveraged to enhance customer service for Regional construction projects. The Capital Projects in Peel website was launched so residents and businesses can easily find information on current and future construction projects in their areas. Hand in hand with this, the Customer Service for Construction Projects program was launched to increase residential and business awareness and understanding of construction project impacts and accuracy of expectations.

This program aims to improve the customer experience and save Regional staff time by reducing the number in inquiries from residents and businesses.

Maintaining our Infrastructure

To ensure our infrastructure is responsibly maintained, we must define a reasonable state of good repair and set priorities to maintain existing service levels. This involves addressing growth concerns and developing an economic lens for infrastructure.

Highlights of the major state of good repair projects for the 2023 Capital Budget include:

Replacement of watermains in Mississauga, Brampton and

Caledon: Replacement of water mains, system improvements and looping of dead-end mains to improve water quality and reliability of the distribution system.

2100-mm Hanlan Transmission Main - Rehabilitation: Rehabilitation of the 2100-mm Hanlan Transmission Main following the commissioning of the new 2400-mm Hanlan Transmission Main.

Local Collection System Repair and Replacement: Funding for sanitary sewer repairs, replacements and relining including alignment of projects with area municipalities and other divisions.



Proposed Operating Budget

This part of the Business Plan sets out the financial resources required to deliver the proposed 2023-2026 Business Plan. Information is provided by major expenditures and revenue. The costs to maintain existing service levels and operationalize prior decisions are identified in the base budget changes separately from proposed changes. The Peel required billings for 2022 was \$459.4 million and the required billings for 2023 is \$488.2 million

Peel Required Billings \$488.2 million

(Net Expenditure before billings: \$531.2 million)

Description	Proposed 2023 Budget	Approved 2022 Budget	\$ Change Over 2022	% Change Over 2022
Operating Costs	134,006	129,241	4,765	3.7%
Labour Costs	49,873	48,244	1,629	3.4%
Reserve Contributions	294,596	272,217	22,379	8.2%
Debt Charges	108,433	124,905	(16,472)	-
Grant Payments				0%
Facility, IT, HR and other support costs	157,818	150,379	7,439	4.9%
Recoveries	(94,371)	(90,484)	(3,887)	4.3%
Total Expenditures	650,355	634,503	15,852	2.5%
Grants and Subsidies				0%
Supplementary Taxes				0%
Fees and Service Charges	(6,209)	(5,911)	(298)	5.0%
Transfer from Development Charges	(108,433)	(124,905)	16,472	-
Contributions from Reserves	(4,500)	(1,388)	(3,112)	224.3%
Other Billings	(42,995)	(42,852)	(144)	0.3%
Total Revenues	(162,137)	(175,056)	12,918	(7.4%)
Total Net Expenditure (Peel required billings)	\$488,217	\$459,424	\$28,792	6.3%

Note: May not add up due to rounding

2023 Operating Budget Pressures

\$'000	Net Expenditures Before Other Billings	Other Billings	Peel Required Billings 2023 vs 2022	
2022 Revised Cost of Service	502,276	42,852	459,424	%
Cost of Living/Inflation				
Labour costs/Goods and services	3,055	-	3,055	
		-		
Base Subsidy/Recoveries				
External billings adjustment		(144)	(144)	
Cost Mitigation¹				
Electricity cost reduction	(2,954)	-	(2,954)	
Miscellaneous Savings	(730)		(730)	
Other Pressures				
Chemical cost increase	7,300	-	7,300	
Allocation of growth in corporate sustaining costs	3,000	-	3,000	
Ontario Clean Water Agency (OCWA) contract cost	1,000	-	1,000	
Managing risk to increasing commodity price	(4,500)	-	(4,500)	
Base Budget Changes Subtotal	6,171	(144)	6,027	
Service Level Demand²				
Infrastructure levy-5%	22,600		22,600	
Water and wastewater linear operations (capital recovery)	-		-	
Fleet operations (40/60 tax and utility)	100		100	
Health & Safety (partial capital recovery)	65		65	
Excess soil (capital recovery)	-		-	
Service Level Changes Subtotal	22,765	-	22,765	
Total 2023 Budget Change	28,936	(144)	28,792	
2023 Proposed Budget	\$531,212	42,995	488,217	6.3%

Note: May not add up due to rounding

Operating budget pressure notes:

Cost Mitigation¹

- Miscellaneous savings of \$730 thousand resulting from the ongoing review of budgets; these reductions will not impact service levels.
- A reduction of \$3.0 million in electricity cost resulting from continuation of leveraging the Industrial Conservation Initiative and improving energy performance at water and wastewater facilities.

Service Level Demand²

- No significant changes in service level
- Continuation of the 5.0% infrastructure levy to maintain condition and performance of water and wastewater infrastructure
- Four new regular FTE requests for front line operators to meet demands for on-going construction project support related to system growth
- Two new regular FTE requests for mechanics at fleet operations to support growth in Regional fleet vehicles and equipment. This will allow the division to maintain existing service levels, while reducing downtime and additional costs associated with overtime and outsourcing. This FTE is split at 40/60 between Tax and Utility services.
- One new regular FTE request for Health & Safety (H&S) specialist to ensure effective management of H&S requirements and compliance with applicable H&S legislation. This FTE is split at 50/50 between Tax and Utility services.
- One new regular FTE request for program manager to provide expert guidance to the Region’s capital team and comply with the new Excess Soils Management Regulation This FTE is split at 20/80 between Tax and Utility services

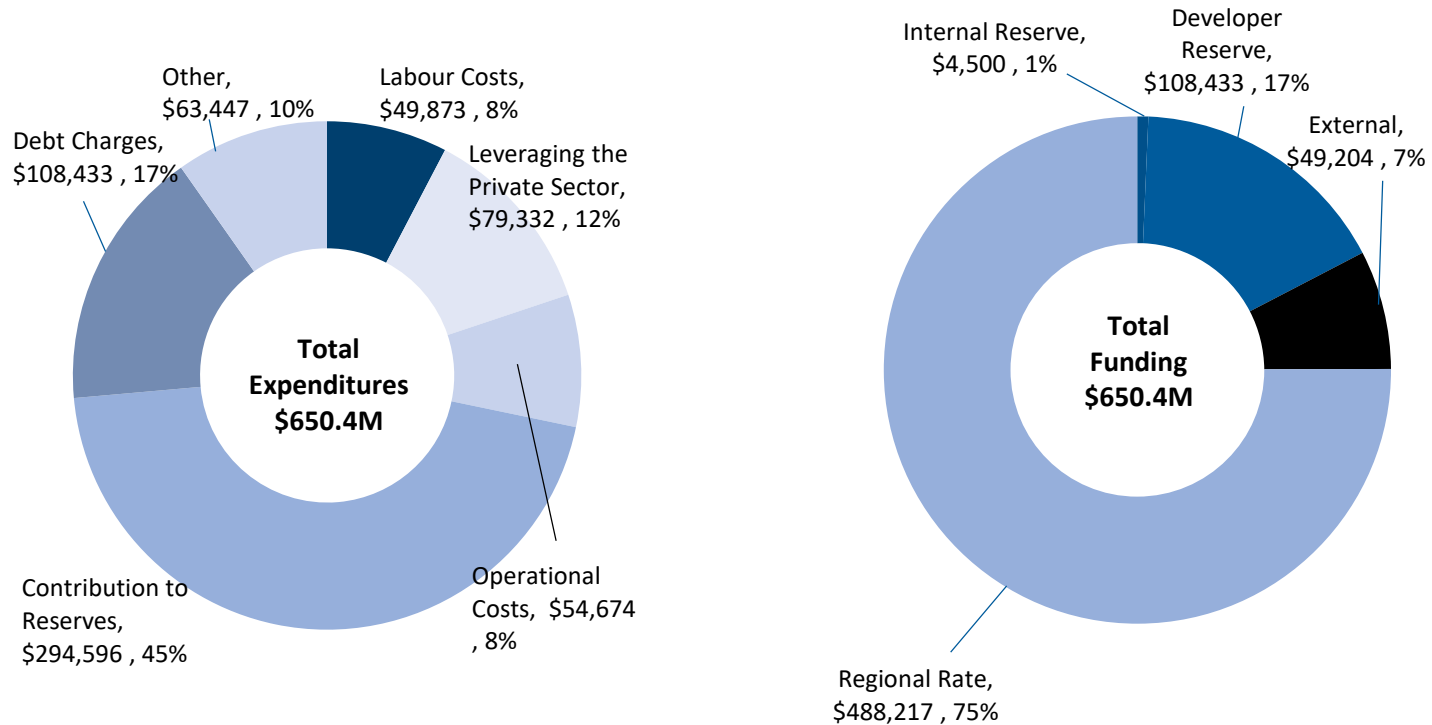
Staffing Resources to Achieve Level of Service

2022	2023	2024	2025	2026
585.2	591.7	613.1	619.9	623.1

Note: Staffing resources are regular positions (Full Time Equivalent, FTE)

- 6.5 FTEs requested in 2023 budget to ensure meeting on-going construction and system growth, health and safety of staff, compliance with the Excess Soils Management Regulation as well as fleet demands.

2023 Total Expenditures & Funding Source (In \$M)



2023 Budget Risks

- Impact of COVID-19 on operations (facilities and staff) will depend on the duration and severity of the pandemic
- Uncertainty around water consumption volumes;
 - Unpredictable weather conditions
 - Recovery from COVID-19 impact

2024 - 2026 Operating Forecast

	Budget			Forecast					
	2022	2023		2024		2025		2026	
	\$'000	\$'000	%	\$'000	%	\$'000	%	\$'000	%
Net Expenditure	502,276	531,212	5.8%	564,302	6.2%	599,247	6.2%	635,272	6.0%
Other Billings	(42,852)	(42,995)	0.3%	(45,278)	5.3%	(46,174)	2.0%	(47,067)	1.9%
Peel Billings	459,424	488,217	6.3%	523,811	7.3%	557,860	6.5%	593,700	6.4%
Average Combined Rate Increase			7.9%		6.8%		5.8%		6.0%

Note: May not add up due to rounding

Overall, the utility rate programs are forecasting an average combined annual rate increase of 6.2% for the years 2024-2026. The year over year increases are subject to several key assumptions such as OCWA contractual cost, chemical prices, electricity rate regulations, water consumption seasonality as well as the investment required to maintain infrastructure. The longer term rate increases are being reassessed and will be informed by the utility rate review expected to be completed in 2023.

Proposed Capital Budget

Capital Budget: \$641.4 million (Ten Year Plan: \$8,283.7 million)

2023 Capital Budget Overview

The following table provides a summary of the Water and Wastewater Service planned capital project activity for 2023, including funding sources for both new capital project requests in 2023 and projects carried forward to 2023.

Capital Plan By Funding Source	Carry-forward from Prior Years (WIP) (\$'000)	2023 Capital Budget (\$'000)	Total Capital in 2023 (\$'000)
DC Growth	1,584,467	312,177	1,896,644
Externally Funded	101,220	-	101,220
Non-DC Internal	939,639	329,265	1,268,904
Total Expenditures	2,625,327	641,442	3,266,768
# of Projects	686	173	859

Existing Capital Projects - \$2,625.3M

- \$1.6B for DC Funded Growth projects including East-to-West Diversion Sanitary Trunk Sewer, East Brampton Transmission Main Twinning, Central Brampton Sub-Transmission Main, Zone 6 Transmission Main & Reservoir, GE Booth Construction and West Trunk Sewer Twinning, & Lining.

- \$0.9B for State of Good Repair projects including Replacement of Watermain projects, Local Wastewater Collection System Repairs, Sewage Pumping Station Rehabilitation, System improvements in Southwest Mississauga, System Improvements in Central Erin Mills and Highway 401 Expansion
- \$101M for External funded projects including Highway 401 Expansion, Downtown Brampton Sanitary Sewer and Hurontario/Main Street Light Rail Transit
- Remaining Work in Progress (WIP) amount includes unspent budgets that have been committed through Purchase Orders, Vendor Contract agreements and with a planned commitment within the next twelve months. Some projects have been adjusted to align with the regional growth projection and DC revenue forecast including a significant amount of projects which have been deferred but are included in WIP. The remaining work in progress to be actioned is estimated to be \$600 million.

2023 Capital Budget - \$641.4M

Key highlights:

- \$144.5M for water main replacement and construction
- \$139.7M for expansion of Water Resource Recovery Facilities
- \$120.8M for wastewater collection main replacement and construction
- \$71.4M for pumping station expansion, rehabilitation and water treatment plant equipment replacement
- \$63.4M for Operation Support facility expansions, equipment upgrades and technology initiatives

See Appendix I for details.

2023 Budget Risks

- Implementation of capital projects may be impacted by COVID-19
- Increased resources required to execute growing capital plan – including backlog of work due to COVID-19 impact

Operating Impact of 2023 Capital Budget

- OCWA operations and maintenance fee increase as new facilities are brought on line
- Additional operations resources will be required in 2023 and beyond as capital projects are delivered and placed into service

Proposed Capital Plan

2023 - 2032 10-Year Capital Plan - \$8,283.7M

By Project Classification:

State of Good Repair \$2,941.6M	DC Funded Growth \$5,121.9M	Non-DC Funded Growth & Other \$220.2M
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Key Highlights:

- \$2,143.3M for wastewater collection main construction and replacement
- \$2,047.4M for expansion of Water Resource Recovery Facilities
- \$1,921.7M for water main construction and replacement
- \$1,035.7M for water treatment plant equipment replacements, pumping station rehabilitation and expansion
- \$600.2M for sanitary trunk sewers, sewage pumping station and odour, corrosion control facilities construction and rehabilitation
- \$199.6M for Operation Support facility expansions, equipment upgrades and technology initiatives

See Appendix II for details.

Budget Requests

This table presents the costs by Budget Request for proposed new initiatives. Each BR is numbered. Detailed descriptions of the budget requests can be found in the pages following the table.

Proposed Initiative	Division	Budget Request #	FTEs Requested	Contract FTE Requested	Net Operating Impact \$	Capital \$
4 Front line operators to meet demands for on-going construction project commissioning as well as water and wastewater system growth	Water	48	4.0	0.0	0	0
Mechanics to meet increasing regional fleet demand	Operations Support	49	2.0	0.0	U -118,260 T – 78,840	0
Specialist to address the Health & Safety requirements on worksites	Operations Support	50	1.0	0.0	U – 32,465 T – 32,465	0
Project manager to ensure compliance with new On-Site and Excess Soils management regulations	Operations Support	51	1.0	0.0	0	0
Billing system upgrade	Operations Support	43	0.0	0.0	0	1,940,000
Wolfedale Yard Expansion	Operations Support	44	0.0	0.0	0	16,000,000
Electric Vehicle Charging Infrastructure	Operations Support	45	0.0	0.0	0	2,000,000
Waste Soils Dewatering Facilities	Operations Support	46	0.0	0.0	0	1,000,000
Victoria Yard Replacement	Operations Support	47	0.0	0.0	0	15,000,000
TOTAL UTILITY (U)			8.0	0.0	150,725	35,940,000
TOTAL TAX (T)					113,305	0

Budget Request #: 48

Proposed Initiative	Department	Division	Service Area
4 Front line operators to meet demands for on-going construction project commissioning as well as water and wastewater system growth	Public Works	Water	Water Supply

Description of Budget Request

The Region of Peel has continued to add infrastructure for our water and wastewater services, such as hydrants, valves, maintenance holes, pipe yet we have no staff increases in the past 5 years. Currently we are asking for 4 front line operators to meet the maintenance target that is currently under achieved so there is uninterrupted water supply and continued wastewater collection that contributes to the overall well-being of residents and businesses in Peel.

Required Annual Operating Investment

Impacts	2023 \$	2024 \$	2025 \$	2026 \$
Gross Expenditures	520,000	-	-	-
Less: Internal and Capital Recovery	(520,000)	-	-	-
Total Expense	-	-	-	-
Reserves	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact -Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	4.0	-	-	-
New Contracts	-	-	-	-

No Capital Investment Required

Why Staff Recommend this Initiative

Currently we do not meet our service level requirements of annual inspections of hydrants, valves and maintenance access points. These are critical components of our system needed for the proper operation of the system and by adding staff we will enhance our service levels to get us closer to our required targets.

Details of Service Change

Currently staff that look after maintenance of our assets are completing 80% of our valve inspections (15,000 of 18,700 completed) and 60% of our hydrant inspections (14,900 of 26,900 completed). Maintenance staff regularly get diverted to support capital projects and the regular work for hydrants and valve maintenance suffers. In a year, over 10,000 work orders are issued to Operations staff to support Capital projects and over 7,000 work orders are issued to support Development projects. The hours that are needed for Capital and Development support in a year would be the equivalent of 9 staff over a year, but the bulk of the work is in the months of May to October and in peak months, over 20 staff are required to support this work. By adding staff, there will be increased maintenance on key assets in our system. The requirements from the Fire Departments are to inspect each hydrant on an annual basis and currently we are not meeting these requirements. Maintaining assets helps ensure a properly operating systems.

Service Impact

Hiring and training staff to become certified operators takes approximately 1 year. Much of their first year is spent in maintenance as the operators learn the system. By adding staff, there will be an increased number of inspections completed on our assets and there should be an increase in the overall targets. Our challenge is keeping up with the growth and adding new staff in a timely manner to keep up with new assets as an outcome of our capital work. A subsequent request for additional staff to support the capital programs is being submitted in a council report to ensure that we can continually support Capital and Development related work.

Budget Request #: 49

Proposed Initiative	Department	Division	Service Area
Mechanics to meet increasing regional fleet demand	Public Works	Operations Support	Water Supply

Description of Budget Request

Two (2) additional mechanics to support growth in Regional fleet vehicles and equipment. This will allow us to maintain existing service levels, while reducing downtime and additional costs associated with overtime and outsourcing. This FTE is split at 40/60 between Tax and Utility services.

Required Annual Operating Investment

Impacts	2023 \$	2024 \$	2025 \$	2026 \$
Gross Expenditures	197,100	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	197,100	-	-	-
Reserves	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	78,840	-	-	-
Net Impact - Utility Rate	118,260	-	-	-
FTEs	2.0	-	-	-
New Contracts	-	-	-	-

No Capital Investment Required

Why Staff Recommend this Initiative

Since 2019, the Regional Fleet has grown by approximately 100 vehicles (PW, Ambulance and Transhelp). This has resulted in an increase to garage workload of approximately 3,000 labor hours. The addition of (2) full-time mechanics is required to meet this increased demand and to maintain Fleet maintenance and repair service levels.

Details of Service Change

Historically, sustained fleet growth has resulted in the necessity to hire an additional mechanic approximately every 2 years to accommodate repair and maintenance demands. On average, the optimal ratio has been approximately 45-50 vehicles per mechanic to sustain service levels while minimizing increased costs due to unnecessary outsourcing and overtime.

An additional mechanic was added in 2019, however since this time the Regional Fleet has grown by approximately 100 vehicles (Public Works, Ambulance and Transhelp) and the ratio of vehicles to mechanics has increased from 48 to 54. This recent growth has also resulted in an increase to garage workload of approximately 3,000 labor hours.

To meet this demand, Fleet Services has hired out-of-budget temporary mechanics (at a cost of \$140,000 in 2021) to avoid the increased costs associated with additional outsourcing and overtime.

The addition of (2) full-time mechanics is required to sustainably manage this increased demand while also providing a vehicle/mechanic ratio within the optimal range to maintain service levels.

Service Impact

Addition of two (2) FTE mechanics will allow us to maintain optimal levels of preventative, reactive repairs while avoiding additional costs due to overtime and additional outsourcing.

Without the additional FTE's, and without continuing to hire temporary staff, the estimated cost of additional outsourcing is estimated at \$350,000.

Budget Request #: 50

1 specialist to address the Health & Safety requirements on worksites	Public Works	Operations Support	Water Supply
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Description of Budget Request

This request is for 1.0 new Health & Safety (H&S) Field Specialist FTE. (There is also a H&S Field Specialist FTE requested as part of the corporate contract conversion exercise for a total of 2 field specialists.) These two positions are required to ensure that Public Works (PW) effectively manages H&S requirements on over 125 worksites and ensures that PW maintains compliance with applicable H&S legislation. This FTE is split at 50/50 between Tax and Utility services.

Required Annual Operating Investment

Impacts	2023 \$	2024 \$	2025 \$	2026 \$
Gross Expenditures	129,860	-	-	-
Less: Internal and Capital Recovery	(64,930)	-	-	-
Total Expense	64,930	-	-	-
Reserves	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact - Tax	32,465	-	-	-
Net Impact - Utility Rate	32,465	-	-	-
FTEs	1.0	-	-	-
New Contracts	-	-	-	-

No Capital Investment Required

Why Staff Recommend this Initiative

In 2019, PW developed a H&S strategy to address underlying & growing H&S risks associated with service delivery. Part of the strategy was to build a dedicated H&S team within PW consisting of a H&S manager, coordinator & 2 field specialists. This team will ensure that the required work is completed so PW worksites follow appropriate H&S practices to keep our staff, contractors, & community safe from workplace accidents. They will also ensure compliance with H&S legislation and Ministry of Labor (MOL) inspections.

Details of Service Change

In 2019, PW developed a plan to implement a H&S strategy to address the underlying and growing H&S risks associated with service delivery. Part of the strategy was to build a dedicated H&S team within PW consisting of a H&S manager, coordinator & 2 field specialists. The coordinator and 1 field specialist were initially approved as contract positions with the expectation that they would become permanent after a period of time. The additional request for a second field specialist has evolved due to increased demand from PW. The Field Specialist is required to ensure that PW continues to manage H&S in their workplaces in an effective & meaningful manner by assisting departmental H&S staff with field inspections, employee training, project management, sub-contractor management, & make recommendations on safe work practices to all levels of employees. By doing this we will ensure our PW sites are administering the appropriate H&S practices to keep our staff, contractors, and community safe from workplace accidents. As well, to ensure compliance with H&S legislation & MOL inspections by identifying, via inspections, our gaps & assisting the departmental leads & coordinators with corrective actions to our deficiencies. They are also responsible for aiding PW employees in practicing safe habits and providing guidance on H&S issues as they arise, at both the supervisor and operator levels.

Service Impact

The addition of 2 full time FTE Field H&S Specialists (this request is for one FTE while the other FTE position has been requested through the contract conversion exercise) will ensure that the required work is completed so PW worksites are following appropriate H&S practices to keep our staff, contractors, and community safe from workplace accidents. They will also ensure compliance with H&S legislation, Ministry of Labour (MOL) inspections and H&S programs and project as they are implemented.

Budget Request #: 51

Proposed Initiative	Department	Division	Service Area
1 project manager to ensure compliance with new On-Site and Excess Soils management regulations	Public Works	Operations Support	Water Supply

Description of Budget Request

This request is for 1 FTE to create a project manager (PM) position with a Qualified Persons (QP) designation on the Environmental Engineering Team. This position is required in order to provide expert guidance to the Region's capital team so that capital projects are compliant with the new On-Site and Excess Soils Management Regulation. This FTE is split at 20/80 between Tax and Utility services

Required Annual Operating Investment

Impacts	2023 \$	2024 \$	2025 \$	2026 \$
Gross Expenditures	141,620	-	-	-
Less: Internal and Capital Recovery	(141,620)	-	-	-
Total Expense	-	-	-	-
Reserves	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact -Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	1.0	-	-	-
New Contracts	-	-	-	-

No Capital Investment Required

Why Staff Recommend this Initiative

The new Regulation supports the improved management of excess soil and provides clarification on the responsibilities for both generators and receivers. Supports the proper management of excess soil, recognizes excess soil as a valuable resource and will prevent the improper disposal/reuse of the soil, which will inhibit contamination of clean sites alongside reducing illegal dumping.

Details of Service Change

In 2019, the provincial government passed the On-Site and Excess Soils Management Regulation which supports the improved management of excess construction soil, recognizes excess soil as a valuable resource and prevents the improper disposal/reuse of the soil, which will inhibit contamination of clean sites alongside reducing illegal dumping. The regulation is being implemented using a multi-phased approach over a five-year period, from 2020 to 2025. The new Excess Soils Regulation requires the need for consistent interpretation of the regulation and how it impacts capital projects; from documentation, tracking, and registration of excess soils generated on Regional sites to managing beneficial reuse sites for soils. In order to effectively and consistently apply the new regulations, a PM is required to oversee this work for all Regional capital projects. This PM will also be required to hold a 'Qualified Persons' (QP) designation under the regulation, so that they can interpret and provide expert guidance to the capital teams and ensure compliance with the regulation.

Service Impact

The new PM will support the Region's Excess Soils Team with the following focus areas to ensure compliance with the regulation:

- Capital Project Support - As a designated QP, the PM will ensure consistent application of the regulation and oversee compliance across all capital projects.
- Documentation, Tracking and Registration System
- Reuse, Temporary Storage and Disposal

The Project Manager will work with internal and external engineering teams to provide a shared service approach. This approach which was intended through industry scans will allow for the most efficient and effective delivery of services needed to support the regulation.

Budget Request #: 43

Proposed Initiative	Department	Division	Service Area
Billing system upgrade	Public Works	Operations Support	Financial Management

Description of Budget Request

The professional services required to upgrade the current version of Customer Care & Billing (CC&B) to Customer Care and Billing Cloud Service (CCBCS) version have been secured through a competitive RFP process. The pricing quote from the successful vendor is \$3.1 million for the upgraded scope of work. The existing approved budget is \$3.0 million. Council also approved the rate structure implementation which will also be delivered by the same vendor under a new scope of work. The additional scope of work is not part of the current pricing quote

Required Annual Operating Investment

Impacts	2023 \$	2024 \$	2025 \$	2026 \$
Gross Expenditures	-	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	-	-	-	-
Reserves	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact -Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	-	-	-	-
New Contracts	-	-	-	-

Required Capital Investment

	2023 \$
Total Expenditures	1,940,000
Reserves (Water and Wastewater Capital Stabilization Reserve)	1,940,000
Development Charges	-
External Funding	-
Debt	-
Total Funding	1,940,000

Why Staff Recommend this Initiative

The main driver is to achieve a service level enhancement by upgrading CC&B to the Cloud CCBCS version with all up-to-date patches and eliminating the risk of the un-supported current version of 2.24. With the upgrade, we would be able to introduce Council approved revised rate structure that would achieve fairness and equity to the rate payers.

Details of Service Change

The upgrade of CC&B to Cloud CCBCS version will remove the risk of the unsupported application by Oracle. This application (CC&B) is used to bill water, wastewater and stormwater customers with an annual revenue of approximately \$0.5 billion. The upgraded version will also enable the Region to introduce a revised rate structure approved by the Regional council.

Service Impact

The outcomes will be achieved by following Project Management principles and guidelines for the implementation project. Progress will be monitored through each phase of the project and risks will be evaluated and reported to the Steering Committee. A third part vendor has been secured through a competitive RFP process who has experience and expertise to deliver the solutions successfully.

Budget Request #: 44

Proposed Initiative	Department	Division	Service Area
Wolfedale Yard Expansion	Public Works	Operations Support	Asset Management

Description of Budget Request

Expansion of Wolfedale Yard to accommodate growth of Regional fleet parking, maintenance and operational storage requirements. The Wolfedale Yard is the main Mississauga area Public Works facility for Water/Wastewater operations. It also serves as the central fleet maintenance facility to all off-site Mississauga-based Region owned vehicles; including those operated by Peel Paramedics and Waste Management, as well as Credit Valley Conservation (CVC) vehicles that the Region maintains on their behalf.

Required Annual Operating Investment

Impacts	2023 \$	2024 \$	2025 \$	2026 \$
Gross Expenditures	-	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	-	-	200,000	-
Reserves	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact -Tax	-	-	100,000	-
Net Impact - Utility Rate	-	-	100,000	-
FTEs	-	-	-	-
New Contracts	-	-	-	-

Required Capital Investment

	2023 \$
Total Expenditures	16,000,000
Reserves (Water and Wastewater Capital Stabilization Reserve & Fleet Reserve)	4,800,000
Development Charges	11,200,000
External Funding	-
Debt	-
Total Funding	16,000,000

Why Staff Recommend this Initiative

Currently, we are at full capacity at Wolfedale Yard for both indoor and outdoor Fleet parking. Electrical infrastructure to accommodate future Fleet replacements at the current Wolfedale Yard is not available. Anticipated growth in the number of Fleet vehicles at this location, as well as future Peel Paramedics/CVC/Waste Management vehicles that will be maintained at this location requires development of the newly purchased property to meet this demand.

Details of Service Change

This property will be developed to include the following: Expanded indoor parking for Water/Wastewater vehicles that are required to respond to emergencies on short notice; phased installation of Electric Vehicle charging infrastructure to accommodate future fleet replacements with electric vehicles; additional surface parking for Fleet growth; Snow storage area to facilitate snow melting activities during significant winter snow events.

Service Impact

Feasibility and concept design complete summer 2022

Site planning approval to be complete fall 2022

Procurement of Design Build to take place spring 2023

Construction to start summer 2023 and complete by winter 2024

The project team met with The Office of Climate Change and Energy Management (OCCEM) and discussed the following: given that a corporate Net-Zero Energy (NZE) standard has not yet been approved, the relatively small size, timelines and state of maturity of the project, that the project team will not be pursuing a NZE certification. OCCEM and Public Works team have discussed various options to build the new Wolfedale Yard expansion facility to be low carbon and best energy management, in addition to the required Electric Vehicle Infrastructure.

Budget Request #: 45

Proposed Initiative	Department	Division	Service Area
Electric Vehicle Charging Infrastructure	Public Works	Operations Support	Asset Management

Description of Budget Request

Installation of electrical infrastructure at various Public Works Facilities to accommodate the charging requirements for anticipated Fleet electric vehicle purchases. This project is specifically to retrofit existing facilities with charging infrastructure, while Electric Vehicle (EV) infrastructure for planned new facilities (Victoria Yard, Wolfedale expansion) have been allocated within the overall project budgets.

Required Annual Operating Investment

Impacts	2023 \$	2024 \$	2025 \$	2026 \$
Gross Expenditures	-	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	-	-	-	-
Reserves	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact -Tax	-	-	-	-
Net Impact - Utility Rate	-	-	-	-
FTEs	-	-	-	-
New Contracts	-	-	-	-

Required Capital Investment

	2023 \$
Total Expenditures	2,000,000
Reserves (Fleet Reserve)	2,000,000
Development Charges	-
External Funding	-
Debt	-
Total Funding	2,000,000

Why Staff Recommend this Initiative

Gradual replacement of current Fleet vehicles with available electric vehicles will significantly reduce greenhouse gasses. Consequently, we need to provide adequate electrical infrastructure to ensure that the vehicles can be charged once replaced.

Details of Service Change

Over the next 10 years, it is anticipated that over 300 fleet vehicles located at various Public Works facilities (currently Gasoline or Diesel powered) will be replaced with a fully electric option. This has the potential to reduce annual Greenhouse Gas (GhG) emissions by 3,200 tonnes Co2 per year (this represents a 30% reduction in the current total Region of Peel fleet GhG emissions). The construction of necessary electrical infrastructure will take place in phases over the next 10 years with all underground infrastructure being provided during Phase 1 to minimize costs during subsequent phases in future years as vehicles are being replaced at the end of their life cycles. Above ground EV chargers will be added in future years to meet demand.

Service Impact

Feasibility and concept designs for various facilities to be complete winter 2022

Procurement to take place spring 2023

Construction to start winter 2023 and complete by winter 2024

The Council approved Green Fleet Strategy identified the following GhG reduction targets:

30 percent below 2017 levels by 2023

50 percent below 2017 levels by 2028

80 percent below 1990 levels by 2050

Anticipated fleet electrification over the next 10 years will result in a 30% reduction towards these targets.

Above ground charging infrastructure will only be installed when required as vehicles reach the end of their current lifecycles and are replaced by Electric. However, all underground infrastructure will be installed during phase 1 to accommodate future year installation. This will significantly reduce construction costs in future years as more electric vehicles are available.

Budget Request #: 46

Proposed Initiative	Department	Division	Service Area
Waste Soils Dewatering Facilities	Public Works	Operations Support	Asset Management

Description of Budget Request

Construction of two (2) dewatering facilities at existing Public Works properties to manage and process waste materials from hydroexcavation activities. Public Works Water operations requires frequent use of Hydroexcavation machines to maintain water mains, sewer mains and associated underground infrastructure. This results in a waste soil and water mix that is required to be disposed of in compliance with Ontario Excess Soils regulations.

Required Annual Operating Investment

Impacts	2023 \$	2024 \$	2025 \$	2026 \$
Gross Expenditures	-	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	-	(90,000)	-	-
Reserves	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact -Tax	-	(45,000)	-	-
Net Impact - Utility Rate	-	(45,000)	-	-
FTEs	-	-	-	-
New Contracts	-	-	-	-

Required Capital Investment

	2023 \$
Total Expenditures	1,000,000
Reserves (Water Capital Stabilization Reserve)	1,000,000
Development Charges	-
External Funding	-
Debt	-
Total Funding	1,000,000

Why Staff Recommend this Initiative

Currently, we manage this material at Copper Yard and Wolfedale Yard, however significant volume increases of this material over the past few years has caused operational and maintenance issues at these two facilities.

Currently, we are incurring costs of over \$100,000 annually to maintain and repair existing systems at Wolfedale and Copper Yards. It is expected that with the new dewatering facilities, the maintenance requirements and costs will be reduced to less than \$10,000 annually.

Details of Service Change

The proposed new facilities will provide an effective and efficient method of separating the water from the soil before ultimate disposal of soil in compliance with Excess Soils Regulations.

Currently, we manage this material at Copper Yard and Wolfedale Yard, however significant volume increases of this material over the past few years has caused operational and maintenance issues at these two facilities.

Currently, we are incurring costs of over \$100,000 annually to maintain and repair existing systems at Copper Yard and Wolfedale Yard. It is expected that with the new dewatering facilities, the maintenance requirements and costs will be reduced to less than \$10,000 annually.

Service Impact

Design to take place summer 2023

Procurement summer 2023

Construction to begin winter 2023 and complete by summer 2024

The Public Works team has connected in with the Climate Change and Energy Management (OCCEM) and to confirm that this structure will not require occupancy, and therefore will not be considered as part of the net zero emission standard. The construction will require slab heating and the project team will connect in with OCCEM to identify the best low carbon (likely electrical) solution to heat the slabs.

Budget Request #: 47

Proposed Initiative	Department	Division	Service Area
Victoria Yard Replacement	Public Works	Operations Support	Roads & Transportation

Description of Budget Request

An increase to budget is required for the construction of the Victoria Yard replacement. Current available budget in this project is \$30.5M. This budget was initially developed in 2015 based only on high level estimates, without comparable completed projects to fully inform budget development at the time.

Required Annual Operating Investment

Impacts	2023 \$	2024 \$	2025 \$	2026 \$
Gross Expenditures	-	-	-	-
Less: Internal and Capital Recovery	-	-	-	-
Total Expense	-	-	-	400,000
Reserves	-	-	-	-
External Funding	-	-	-	-
Other Revenue	-	-	-	-
Total Revenue	-	-	-	-
Net Impact -Tax	-	-	-	200,000
Net Impact - Utility Rate	-	-	-	200,000
FTEs	-	-	-	-
New Contracts	-	-	-	-

Required Capital Investment

	2023 \$
Total Expenditures	15,000,000
Reserves	-
Development Charges	15,000,000
External Funding	-
Debt	-
Total Funding	15,000,000

Why Staff Recommend this Initiative

Our current Victoria yard is occupied by Roads Operations and Operations Support staff. The site has insufficient space to support ongoing and future operations and has exceeded its operational life expectancy without requiring significant investments to buildings and infrastructure. The new site will also include a significant increase in available salt storage, reducing the risk of shortages during the winter months.

Details of Service Change

Construction includes: Office space, indoor parking garage, warehouse storage space, Fleet maintenance and repair, Vehicle wash and fueling facilities, Salt storage facility, brine production and storage.

Additional recent additions to scope include environmental initiatives which include:

Low Impact Development (Rainwater harvesting for use in wash facilities and brine production),
On-site wastewater treatment,
Electric vehicle charging infrastructure,
Solar energy recovery.

Service Impact

Engineering, design and site planning to occur through 2022 into spring 2023

Procurement in summer 2023, Construction start summer 2023

Final completion spring 2026

The New Victoria Yard will be built to the Net Zero Emission standard that the region is currently developing, and to this effect the current scope of work has already included wording that will require this project to be built to the CaGBC Zero carbon building standard. The Climate Change and Energy Management (OCCEM) are working very closely with the Project Manager (PM) team from Certified Professional Project Manager (CPPM), in collaboration with PW team. The site will also include features such as Low Impact Development (LID), Solar recovery and Electric Vehicle (EV) Charging infrastructure.

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
121420	Rehabilitation and Upgrade of the Queensway Sub-Transmission Main	Rehabilitation and upgrade of the Queensway Sub-Transmission Main to provide additional east-west transfer capacity in Pressure Zone 2.	5,000	2,500	2,500	0	0
141346	System Improvements in Central Erin Mills (Phase 2)	Implementation of system improvements in central Erin Mills to improve water quality, reliability and residual pressure for customers. Additional funds.	4,000	0	4,000	0	0
151138	600-mm Water Main - Heritage Road (Bram West)	Construction of a 600-mm water main from the Meadowvale North Pumping Station to Steeles Avenue West. Additional funds.	8,500	8,500	0	0	0
161166	750-mm Water Main - Goreway Drive	Construction of a 750-mm water main on Goreway Drive from Castlemore Road to Countryside Drive. Additional funds.	5,500	5,500	0	0	0
171340	Replacement of 300-mm Water Main on McVean Drive	Replacement of the existing 300-mm water main on McVean Drive from Castlemore Road to Countryside Drive. Additional funds.	4,500	0	4,500	0	0
181169	600-mm Water Main - Queen Street East (Bram East)	Construction of a 600-mm water main on Queen Street East from Goreway Drive to Cherrycrest Drive. Additional funds.	5,500	5,500	0	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
181310	Replacement of Water Mains in Mississauga	Replacement of water mains, system improvements and looping of dead-end mains in Mississauga to improve water quality and reliability of the distribution system. Additional funds.	2,250	0	2,250	0	0
181340	Replacement of 300-mm Water Main on Williams Parkway East	Replacement of the 300-mm water main on Williams Parkway East from Main Street North to Southlake Boulevard. Additional funds.	3,000	0	3,000	0	0
181394	Queen Elizabeth Way Widening (Cawthra to East Mall) - Water Impacts	Replacement or relocation of water mains in conjunction with the widening of the Queen Elizabeth Way.	2,000	0	2,000	0	0
181422	2100-mm Hanlan Transmission Main - Rehabilitation	Rehabilitation of the 2100-mm Hanlan Transmission Main following the commissioning of the new 2400-mm Hanlan Transmission Main. Additional funds.	20,000	0	20,000	0	0
191120	750-mm Water Main - Lakeshore Road West	Construction of a 750-mm water main on Lakeshore Road West from the Lorne Park Water Treatment Plant to Elmwood Avenue.	1,000	1,000	0	0	0
191172	600-mm Water Main - Clarkway Drive	Construction of a 600-mm water main on Clarkway Drive from Castlemore Road northerly to the future east-west road.	7,000	7,000	0	0	0

2023 Financing Sources and Funding Status (\$'000)

Projects	Name	Description	2023				
			Total Expense	Development Charges	Reserves & Reserve Funds	External Funding	Debt Funding
191581	Caledon East - New Groundwater Well - Class Environmental Assessment	Class Environmental Assessment (EA) for a new groundwater well to service future development in Caledon East.	250	250	0	0	0
191592	Water Long-Term Financial Plan	Development of a long-term financial plan for the water system, including a review of the rate structure and stakeholder engagement.	250	0	250	0	0
201119	400-mm Water Main - Extension of Square One Drive (Mississauga City Centre)	Construction of a 400-mm water main on the extension of Square One Drive from Confederation Parkway to Rathburn Road West. Additional funds.	250	250	0	0	0
201583	Palgrave - New Groundwater Well - Class Environmental Assessment	Class Environmental Assessment for a new groundwater well to service future development in Palgrave.	100	100	0	0	0
211015	Water Enterprise Asset Management Implementation Program	Funding the implementation of the water enterprise asset management system and other costs related to asset management maturity.	700	0	700	0	0
211114	400-mm Water Main - Ninth Line (Ninth Line Lands)	Construction of a 400-mm water main on Ninth Line from Derry Road West to 620 metres southerly.	2,188	2,188	0	0	0
211951	Snelgrove Elevated Tank - Decommissioning	Decommissioning of the Snelgrove Elevated Tank after the Victoria Reservoir and Transmission Main are in service. Assessment in 2023.	275	138	138	0	0

2023 Financing Sources and Funding Status (\$'000)

			2023				
<u>Projects</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
211976	North Brampton Reservoir and Pumping Station - Improvements and Upgrades	Improvements and upgrades at the North Brampton Reservoir and Pumping Station.	8,100	0	8,100	0	0
221112	400-mm Water Main - Derry Road West (Ninth Line Lands)	Construction of a 400-mm water main on Derry Road West from Tenth Line West to Ninth Line.	2,878	2,878	0	0	0
221113	400-mm Water Main - Ninth Line (Ninth Line Lands)	Construction of a 400-mm water main on Ninth Line from Derry Road West to Terragar Boulevard.	2,577	2,577	0	0	0
221310	Replacement of Water Mains in Mississauga	Replacement of water mains, system improvements and looping of dead-end mains in Mississauga to improve water quality and reliability of the distribution system. Additional funds.	8,000	0	8,000	0	0
221506	Master Plan for the Groundwater-Based Systems	Review and update of the Region of Peel's Master Plan for the lake-based water supply system.	500	500	0	0	0
221832	Palgrave - New Groundwater Well	Construction of a new municipal groundwater well in Palgrave to service future development in Palgrave Village and Palgrave Estates. Design in 2023.	500	250	250	0	0
221936	Lorne Park Water Treatment Plant - Electrical Upgrades	Implementation of various electrical upgrades at the Lorne Park Water Treatment Plant.	1,375	0	1,375	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
221992	Hanlan West Pumping Station	Construction of a new pumping station with a logistics, training and storage facility. Design in 2023.	1,000	500	500	0	0
231000	Unallocated Funds for the Water Program	Funding available for unforeseen, unplanned or emergency water-related works valued under \$250,000.	1,000	0	1,000	0	0
231002	Easement Acquisition for Existing Water Infrastructure	Funding for the acquisition of easements for existing water infrastructure.	100	0	100	0	0
231016	Water Enterprise Asset Management Implementation Program for OCWA	Funding the implementation of the water enterprise asset management system for OCWA and other costs related to asset management maturity.	3,500	0	3,500	0	0
231127	600-mm Water Main - Derry Road East	Construction of a 600-mm water main on Derry Road East from Dixie Road to Airport Road. Design in 2023.	2,821	2,821	0	0	0
231160	600-mm Water Main - Queen Street East (Bram East)	Construction of a 600-mm water main on Queen Street East from Cherrycrest Drive to the Gore Road. Design in 2023.	1,339	1,339	0	0	0
231162	400-mm Water Main - Queen Street East (Bram East)	Construction of a 400-mm water main on Queen Street East from The Gore Road to Highway 50. Design in 2023.	315	315	0	0	0
231174	600-mm Water Main - Clarkway Drive (Highway 427 Industrial)	Construction of a 600-mm water main on Clarkway Drive from Mayfield Road to Countryside Drive. Design in 2023.	632	632	0	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
231195	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from a future street north of Mayfield Road to Healey Road. Design in 2024.	625	625	0	0	0
231196	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from Mayfield Road to 1450 metres northerly. Design in 2023.	826	826	0	0	0
231227	Queensway Sub-Transmission Main Extension	Construction of a 900-mm/1500-mm sub-transmission main from Haines Road to Dixie Road. Design in 2023.	4,000	4,000	0	0	0
231300	Water Distribution System - Major Maintenance	Funding for major maintenance of the Region of Peel's water distribution system.	2,100	0	2,100	0	0
231302	Valve Rehabilitation and Replacement Program	Rehabilitation and replacement program for large diameter valves in the lake-based water distribution system.	5,000	0	5,000	0	0
231303	Design for the Replacement of Water Mains in Peel	Funding for the design of water main replacement projects in the Region of Peel for the following year to facilitate on-time construction.	3,500	0	3,500	0	0
231305	Water Distribution System - Condition Assessment Program	Inspection and condition assessment program for the lake-based water distribution system.	250	0	250	0	0

2023 Financing Sources and Funding Status (\$'000)

			2023				
<u>Projects</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
231310	Replacement of Water Mains in Mississauga	Replacement of water mains, system improvements and looping of dead-end mains in Mississauga to improve water quality and reliability of the distribution system.	21,003	0	21,003	0	0
231340	Replacement of Water Mains in Brampton	Replacement of water mains, system improvements and looping of dead-end mains in Brampton to improve water quality and reliability of the distribution system.	11,510	0	11,510	0	0
231370	Replacement of Water Mains in Caledon	Replacement of water mains, system improvements and looping of dead-end mains in Caledon to improve water quality and reliability of the distribution system.	2,487	0	2,487	0	0
231405	Transmission Main Inspection Program	Inspection and condition assessment program for the lake-based water transmission mains and implementation of real-time monitoring.	4,500	0	4,500	0	0
231406	Flow Monitoring for the Lake-Based Water Supply System	Installation of flow and pressure monitoring equipment for the lake-based water transmission and distribution systems.	1,500	0	1,500	0	0
231407	Major Maintenance for the Water Transmission System	Major maintenance for the lake-based water transmission mains.	3,000	0	3,000	0	0
231408	Transmission Main Rehabilitation Program	Rehabilitation program for the lake-based water transmission mains.	5,000	0	5,000	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
231419	Transient Protection Program for the Water Transmission Mains	Program to replace existing transient protection on the lake-based transmission mains.	500	0	500	0	0
231424	1500-mm Streetsville Transmission Main - Rehabilitation	Rehabilitation of the 1500-mm Streetsville Transmission Main. Design in 2023.	2,000	0	2,000	0	0
231431	1200-mm Meadowvale North Transmission Main - Rehabilitation	Rehabilitation of the 1200-mm Meadowvale North Transmission Main. Design in 2023.	2,000	0	2,000	0	0
231432	1500-mm Beckett Sproule Transmission Main - Rehabilitation	Rehabilitation of the 1500-mm Beckett Sproule Transmission Main. Design in 2023.	2,000	0	2,000	0	0
231501	Hydraulic Water Modelling Support	Funding for hydraulic water modelling support for the Division to support day-to-day operations, emergency planning, growth planning and planned shutdowns.	300	150	150	0	0
231520	Non-Growth-Related Water Infrastructure Planning	Asset management and other non-growth-related studies for the Region's water system.	1,000	0	1,000	0	0
231525	Groundwater Well Monitoring Program	Implementation of an automated system to collect real-time groundwater data for our well-based systems.	100	0	100	0	0
231526	Groundwater Well Structural Casing Analysis	Structural assessment and integrity analysis of municipal groundwater well casings to meet the enhanced requirements of the Ministry of the Environment, Conservation and Parks.	200	100	100	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
231527	Caledon Village and Palgrave Feasibility Analysis	Additional studies to investigate the declining efficiency of municipal groundwater wells in Caledon.	150	0	150	0	0
231530	Development-Related Water Infrastructure Planning	Funding for water infrastructure planning and studies related to new development.	2,000	2,000	0	0	0
231531	Water Resources Support to Water Capital Projects	Funding to support water capital projects for any issues related to water resources.	150	90	60	0	0
231532	Source Water Protection	Funding for various activities related to source water protection, including wellhead protection area delineation, risk management, modelling, threats verification and climate change assessments.	300	60	240	0	0
231535	Long-Term Property Acquisition Strategy	Development of a comprehensive long-term property acquisition strategy for Public Works.	100	100	0	0	0
231540	Water and Wastewater Operations and Optimization Studies	Various studies and investigations related to the efficient operation and optimization of Peel's water and wastewater treatment plants.	500	0	500	0	0
231590	External Agency Project Impacts on Water Infrastructure	Various studies, investigations and pre-design related to the impacts of external agency projects in Peel's water infrastructure.	100	50	50	0	0

2023 Financing Sources and Funding Status (\$'000)

			2023				
<u>Projects</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
231805	Groundwater Systems - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement for the groundwater systems.	650	0	650	0	0
231810	Groundwater Systems - Condition Assessment Program	Condition assessment of facilities that are part of the groundwater systems and development of a maintenance plan.	100	0	100	0	0
231830	Caledon East - New Groundwater Well	Construction of a new municipal groundwater well in Caledon East to service future development. Design in 2023.	1,375	688	688	0	0
231902	Transmission Facilities - Condition Assessment Program	Condition assessment of the lake-based transmission facilities and development of a maintenance plan.	100	0	100	0	0
231903	Transmission Facilities - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the lake-based pumping stations, reservoirs and elevated tanks.	3,150	0	3,150	0	0
231906	A.P. Kennedy Water Treatment Plant - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the A.P. Kennedy Water Treatment Plant.	2,300	0	2,300	0	0
231907	Lorne Park Water Treatment Plant - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the Lorne Park Water Treatment Plant.	1,250	0	1,250	0	0

2023 Financing Sources and Funding Status (\$'000)

			2023				
<u>Projects</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
231908	Water Treatment Research and Innovation	Funding for collaborative research and innovation projects to improve the efficiency and effectiveness of treatment operations for the lake-based water system.	350	0	350	0	0
231909	Replacement of Membrane Filters at the A.P. Kennedy Water Treatment Plant	Replacement program for the membrane filters at the A.P. Kennedy Water Treatment Plant.	9,240	0	9,240	0	0
231915	Reservoir Rehabilitation and Improvement Program	Program to rehabilitate and upgrade various reservoirs in the lake-based water supply system.	750	0	750	0	0
231920	A.P. Kennedy Water Treatment Plant - Condition Assessment Program	Condition assessment of the A.P. Kennedy Water Treatment Plant and development of a maintenance plan.	200	0	200	0	0
231930	Lorne Park Water Treatment Plant - Condition Assessment Program	Condition assessment of the Lorne Park Water Treatment Plant and development of a maintenance plan.	150	0	150	0	0
231942	West Caledon Elevated Tank	Construction of a new 10-million-litre elevated tank in southwest Caledon to provide storage for Pressure Zone 7. Property acquisition in 2023 and design in 2024.	4,200	4,200	0	0	0
231981	Improvements to Automation Equipment at the Water Facilities	Funding for various improvements and upgrades to the automation equipment at the water treatment plants.	2,450	0	2,450	0	0

2023 Financing Sources and Funding Status (\$'000)

			2023				
<u>Projects</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
231983	Cellular Repeater Installation at the Water Treatment Plants	Installation of cellular repeaters at the water treatment plants for health and safety to provide cellular signal in tunnels and other dead spots. Design in 2023.	1,100	0	1,100	0	0
231989	A.P. Kennedy Water Treatment Plant Expansion - Transient Protection	Expansion of the A.P. Kennedy Water Treatment Plant with the construction of a new transient protection.	2,625	2,625	0	0	0
231990	Lorne Park Water Treatment Plant Expansion - Transient Protection	Expansion of the Lorne Park Water Treatment Plant with the construction of a new transient protection.	2,625	2,625	0	0	0
231994	Silverthorn Pumping Station Expansion - Transient Protection	Expansion of the Silverthorn Pumping Station with the construction of new transient protection.	1,200	1,200	0	0	0
Water			217,417	64,077	153,340	0	0
221140	400-mm Water Main - Future Lagerfeld Drive (Mount Pleasant)	Construction of a 400-mm water main on the future extension of Lagerfeld Drive from Mississauga Road to Creditview Road.	4,714	4,714	0	0	0
231137	400-mm Water Main - Future Lagerfeld Drive (Heritage Heights)	Construction of a 400-mm water main on the future extension of Lagerfeld Drive from Mississauga Road to 800 metres westerly.	1,560	1,560	0	0	0
Water Development Services			6,274	6,274	0	0	0

2023 Financing Sources and Funding Status (\$'000)

			2023				
<u>Projects</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
152241	Cooksville Creek to Burnhamthorpe Road Sanitary Trunk Sewer Diversion	Construction of a diversion from the Cooksville Creek Sanitary Trunk Sewer to the Burnhamthorpe Road Sanitary Trunk Sewer. Additional funds.	4,000	4,000	0	0	0
162300	Local Collection System Repair and Replacement	Funding for sanitary sewer repairs, replacements and relining including alignment of projects with area municipalities and other divisions. Additional funds.	5,000	0	5,000	0	0
182260	Etobicoke Creek Sanitary Trunk Sewer Twinning - Class Environmental Assessment	Class Environmental Assessment for a new sanitary trunk sewer in the Etobicoke Creek watershed. Additional funds.	750	750	0	0	0
182394	Queens Elizabeth Way Widening (Cawthra to Etobicoke Creek) - Wastewater Impacts	Replacement or relocation of sanitary sewers in conjunction with the widening of the Queens Elizabeth Way from the Etobicoke Creek to Cawthra Road.	2,000	0	2,000	0	0
182905	Sewage Pumping Station Rehabilitation Program (Phase 2)	Rehabilitation, upgrade or replacement of sewage pumping stations in the lake-based wastewater collection system.	10,000	0	10,000	0	0
182976	McVean Sewage Pumping Station Expansion	Expansion of the McVean Sewage Pumping Station to a firm capacity of 2100 litres per second.	25,200	25,200	0	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
192215	Lakeshore Road West Sanitary Trunk Sewer	Construction of a sanitary trunk sewer on Lakeshore Road West from east of the Credit River to the Jack Darling 1 Sewage Pumping Station.	1,000	800	200	0	0
192410	Erin Mills Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Erin Mills Sanitary Trunk Sewer from Erin Mills Parkway to Mississauga Road.	6,000	0	6,000	0	0
192592	Wastewater Long-Term Financial Plan	Development of a long-term financial plan for the wastewater system, including a review of the rate structure and stakeholder engagement.	250	0	250	0	0
192924	G.E. Booth Water Resource Recovery Facility - Automation Consolidation	Consolidation of Supervisory Control and Data Acquisition System (SCADA) equipment and removal of legacy product upgrades at the G.E. Booth Water Resource Recovery Facility.	1,500	375	1,125	0	0
192934	Clarkson Water Resource Recovery Facility - Automation Consolidation	Consolidation of Supervisory Control and Data Acquisition System (SCADA) equipment and removal of legacy product upgrades at the Clarkson Water Resource Recovery Facility.	1,200	300	900	0	0
192981	Wastewater System Supervisory Control and Data Acquisition (SCADA) Improvements	Various improvements to the Supervisory Control and Data Acquisition (SCADA) systems at the lake-based wastewater facilities.	500	250	250	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
202951	Clarkson Water Resource Recovery Facility - Primary Thickening Facility	Construction of a primary treatment thickening facility to support the expansion of the Clarkson Water Resource Recovery Facility.	45,000	45,000	0	0	0
202992	Clarkson Water Resource Recovery Facility - CoGen Facility Expansion	Twinning of the CoGen facility at the Clarkson Water Resource Recovery Facility as part of the strategic energy plan. Additional funds.	3,700	0	3,700	0	0
212015	Wastewater Enterprise Asset Management Implementation Program	Funding the implementation of the wastewater enterprise asset management system and other costs related to asset management maturity.	700	0	700	0	0
212402	Sanitary Trunk Sewer Inflow and Infiltration Implementation	Condition assessment and rehabilitation of sanitary trunk sewers and maintenance holes to reduce inflow and infiltration.	5,000	2,500	2,500	0	0
212411	Sawmill Creek and Levi Creek Sanitary Trunk Sewers - Rehabilitation	Rehabilitation of the Sawmill Creek and Levi Creek Sanitary Trunk Sewers.	6,000	0	6,000	0	0
222321	375-mm Sanitary Sewer - Mississauga Road (Port Credit)	Construction of a 375-mm sanitary sewer on Mississauga Road from the Indian Road Sewage Pumping Station to Lakeshore Road West.	5,000	0	5,000	0	0
222581	Bolton Residential Expansion Class Environmental Assessment	Class Environmental Assessment for new wastewater infrastructure to service growth in the Bolton Residential Expansion Area. Additional funds.	750	750	0	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
222923	G.E. Booth Water Resource Recovery Facility - Plant 2 Blower Replacement	Replacement of the existing three blowers at Plant 2 with six multi-stage high-efficiency blowers.	35,000	17,500	17,500	0	0
222950	Clarkson Wastewater Treatment Plant Expansion	Expansion of liquids treatment capacity of the Clarkson Wastewater Treatment Plant from 350 to 500 million litres per day. Design in 2023 and 2024.	36,000	36,000	0	0	0
232000	Unallocated Funds for the Wastewater Program	Funding available for unforeseen, unplanned or emergency wastewater-related works.	1,000	0	1,000	0	0
232002	Easement Acquisition for Existing Wastewater Infrastructure	Funding for the acquisition of easements for existing wastewater infrastructure.	100	0	100	0	0
232016	Water Enterprise Asset Management Implementation Program for OCWA	Funding the implementation of the wastewater enterprise asset management system for OCWA and other costs related to asset management maturity.	3,500	0	3,500	0	0
232100	Inflow and Infiltration Prevention Program	Program to prevent new sources of inflow and infiltration, including the installation of flow monitors at the sanitary sewer outlets of new subdivisions.	200	200	0	0	0
232126	600-mm Sanitary Sewer - Kingsbridge Garden Circle/Elia Avenue (Uptown Mississauga)	Construction of a 600-mm sanitary sewer on Kingsbridge Garden Circle and Elia Avenue from Jenkins Crescent to Sorrento Drive. Design in 2023.	679	679	0	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
232127	525-mm Sanitary Sewer - Aviation Road	Construction of a 525-mm sanitary sewer on Aviation Road from the Beach Street Sewage Pumping Station to Lakeshore Road East.	9,000	4,500	4,500	0	0
232128	600-mm Sanitary Sewer - Lakeshore Road East	Construction of a 600-mm sanitary sewer on Lakeshore Road East from Aviation Road to East Avenue.	10,000	10,000	0	0	0
232129	525-mm Sanitary Sewer - Kirwin Avenue/Little John Lane (Cooksville)	Construction of a 525-mm sanitary sewer on Kirwin Avenue and Little John Lane from Hurontario Street to the Lower Cooksville Creek Sanitary Trunk Sewer. Design in 2023.	518	518	0	0	0
232150	450-mm Sanitary Sewer - Easement (Bramalea City Centre)	Construction of a 450-mm sanitary sewer in an easement from Central Park Drive and Knightsbridge Road to Kensington Road and Kings Cross Road. Design in 2023.	411	370	41	0	0
232165	675-mm Sanitary Sewer - Queen Street East (Bram East)	Construction of a 675-mm sanitary sewer on Queen Street East from The Gore Road to McVean Drive. Design in 2023.	1,983	1,983	0	0	0
232192	375-mm/450-mm Sanitary Sewer - George Bolton Parkway Extension/Industrial Road	Construction of a 375-mm/450-mm sanitary sewer on the future extension of George Bolton Parkway and Industrial Road. Design in 2023.	416	354	62	0	0

2023 Financing Sources and Funding Status (\$'000)

Projects	Name	Description	2023				
			Total Expense	Development Charges	Reserves & Reserve Funds	External Funding	Debt Funding
232261	Etobicoke Creek Sanitary Trunk Sewer Twinning	Construction of a 1500-mm sanitary trunk sewer in the Etobicoke Creek valley from Kennedy Road to Derry Road East. Design in 2023.	16,152	16,152	0	0	0
232270	Humber Station Road Sanitary Trunk Sewer (Phase 1)	Construction of a 750-mm sanitary trunk sewer on Humber Station Road from Mayfield Road to 1600 metres northerly. Design in 2023.	986	986	0	0	0
232271	Humber Station Road Sanitary Trunk Sewer (Phase 2)	Construction of a 750-mm sanitary trunk sewer on Humber Station Road from Healey Road to 1600 metres southerly. Design in 2023.	1,044	1,044	0	0	0
232272	Clarkway Sanitary Trunk Sewer	Construction of a 750-mm sanitary trunk sewer on Clarkway Drive from Countryside Drive to Mayfield Road. Design in 2023.	2,104	2,104	0	0	0
232300	Local Collection System Repair and Replacement	Funding for sanitary sewer repairs, replacements and relining including alignment of projects with area municipalities and other divisions.	24,280	0	24,280	0	0
232301	Implementation of Inflow and Infiltration Remediation Measures	Funding the implementation of remediation measures to reduce inflow and infiltration into the Region's sanitary sewer system.	3,000	1,500	1,500	0	0
232302	Wastewater Collection System - Major Maintenance and Emergency Repairs	Funding for major maintenance of the Region of Peel's wastewater collection system.	1,000	0	1,000	0	0

2023 Financing Sources and Funding Status (\$'000)

			2023				
<u>Projects</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
232303	Design of Sanitary Sewer Repair and Replacement in Peel	Funding for the design of sanitary sewer repair and replacement projects in the Region of Peel for the following year to facilitate on-time construction.	3,500	0	3,500	0	0
232304	Force Main Inspection and Condition Assessment Program	Periodic and ongoing inspection and condition assessment of the sanitary force mains.	500	0	500	0	0
232305	Force Main Rehabilitation Program	Periodic and ongoing inspection and condition assessment of the sanitary force mains.	750	0	750	0	0
232307	Sanitary Maintenance Hole Rehabilitation Program	Funding to rehabilitate sanitary maintenance holes in the Region's wastewater collection system.	5,000	0	5,000	0	0
232401	Wastewater Flow and Rainfall Monitoring Program	Installation, operation and maintenance of permanent and temporary flow monitors and rainfall gauges in the Region's lake-based wastewater collection system.	2,400	480	1,920	0	0
232405	Sanitary Trunk Sewer Inspection and Condition Assessment Program	Inspection, cleaning and condition assessment of the lake-based primary collection system.	2,500	0	2,500	0	0
232407	Sanitary Trunk Sewer Rehabilitation Program	Miscellaneous sanitary trunk sewer rehabilitation activities for the lake-based primary collection system.	2,000	0	2,000	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
232465	Spring Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Spring Creek Sanitary Trunk Sewer from Steeles Avenue East to north of Clark Boulevard. Design in 2023.	2,000	0	2,000	0	0
232468	Etobicoke Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Etobicoke Creek Sanitary Trunk Sewer from Conservation Drive to Archdekin Park. Assessment in 2023.	3,000	0	3,000	0	0
232501	Hydraulic Wastewater Modelling Support	Funding for hydraulic wastewater modelling support for the Division to support day-to-day operations, emergency planning, growth planning and planned shutdowns.	300	150	150	0	0
232503	Studies Related to the York-Peel Water and Wastewater Servicing Agreements	Various studies related to the Water and Wastewater York-Peel Servicing Agreements.	300	0	300	0	0
232512	Inflow and Infiltration Remediation Program	Collection and analysis of data and development of solutions to reduce inflow and infiltration in the sanitary collection system.	2,500	1,250	1,250	0	0
232520	Non-Growth-Related Wastewater Infrastructure Planning	Asset management and other non-growth-related studies for the Region's wastewater system.	1,000	0	1,000	0	0
232530	Development-Related Wastewater Infrastructure Planning	Funding for wastewater infrastructure planning and studies related to new development.	2,000	2,000	0	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
232531	Water Resources Support to the Wastewater Program	Funding to support wastewater capital projects for any issues related to water resources.	150	90	60	0	0
232582	Lower West Sanitary Class Environmental Assessment	Assessment for the twinning of the Lower West Sanitary Trunk Sewer.	1,500	1,500	0	0	0
232590	External Agency Project Impacts on Wastewater Infrastructure	Various studies, investigations and pre-design related to the impacts of external agency projects in Peel's wastewater infrastructure.	100	50	50	0	0
232904	Sewage Pumping Stations - Condition Assessment Program	Funding for condition assessment of sewage pumping stations in the lake-based wastewater collection system.	1,000	0	1,000	0	0
232905	Sewage Pumping Stations - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the lake-based sewage pumping stations.	2,000	0	2,000	0	0
232906	Clarkson Water Resource Recovery Facility - Major Maintenance	Funding for planned major maintenance and equipment replacement at the Clarkson Water Resource Recovery Facility.	3,000	0	3,000	0	0
232907	G.E. Booth Water Resource Recovery Facility - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the G.E. Booth Water Resource Recovery Facility.	3,500	0	3,500	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
232908	G.E. Booth Water Resource Recovery Facility - Biosolids Major Maintenance	Funding for planned major maintenance and equipment replacement for the biosolids process at the G.E. Booth Water Resource Recovery Facility.	5,500	0	5,500	0	0
232920	G.E. Booth Water Resource Recovery Facility - Condition Assessment Program	Condition assessment of the G.E. Booth Water Resource Recovery Facility and development of a maintenance plan.	150	0	150	0	0
232922	G.E. Booth Water Resource Recovery Facility Major Capital Improvement - Diffusers	Replacement of the fine bubble diffusers at the G.E. Booth Water Resource Recovery Facility.	1,000	0	1,000	0	0
232930	Clarkson Water Resource Recovery Facility - Condition Assessment Program	Condition assessment of the Clarkson Water Resource Recovery Facility and development of a maintenance plan.	100	0	100	0	0
232936	Clarkson Water Resource Recovery Facility - Health and Safety Upgrades	Various upgrades related to health and safety at disposal locations at the Clarkson Water Resource Recovery Facility.	500	0	500	0	0
232952	Clarkson Water Resource Recovery Facility - Biosolids Expansion	Expansion of the biosolids process at the Clarkson Water Resource Recovery Facility to service growth in the Region of Peel.	20,000	20,000	0	0	0
232975	Sewage Pumping Station Flow Meter Replacements	Replacement of flow meters at various sewage pumping stations in Peel.	300	0	300	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
232981	Miscellaneous Supervisory Control and Data Acquisition Improvements for the Wastewater Facilities	Funding for various improvements and upgrades to the automation equipment at the water resource recovery facilities.	1,350	0	1,350	0	0
232983	Cellular Repeater Installation at the Water Resource Recovery Facilities	Installation of cellular repeaters at the water resource recovery facilities for health and safety to provide cellular signal in tunnels and other dead spots. Design in 2023.	1,100	0	1,100	0	0
Wastewater			339,923	199,334	140,589	0	0
152151	525-mm Sanitary Sewer - Countryside Drive (Countryside Villages)	Construction of a 525-mm sanitary sewer on Countryside Drive from Airport Road to Inspire Boulevard. Additional funds.	1,987	1,987	0	0	0
222101	375-mm Sanitary Sewer - Ninth Line (Ninth Line Lands)	Construction of a 375-mm sanitary sewer on Ninth Line from Erin Centre Boulevard to 315 metres southerly. Additional funds.	1,763	1,763	0	0	0
232136	525/450-mm Sanitary Sewer - Easement (Heritage Heights)	Construction of a 525/450-mm sanitary sewer in an easement from Mississaga Road to 240 metres westerly.	1,280	1,280	0	0	0
232137	375-mm Sanitary Sewer - Future Streets (Heritage Heights)	Construction of a 375-mm sanitary sewer on future streets in Heritage Heights from the future 450-mm sanitary sewer in the easement to 425 metres northerly.	1,656	1,656	0	0	0

2023 Financing Sources and Funding Status (\$'000)

<u>Projects</u>	<u>Name</u>	<u>Description</u>	2023				
			<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
232154	450-mm Sanitary Sewer - Inspire Boulevard (Countryside Villages)	Construction of a 450-mm sanitary sewer on Inspire Boulevard from Countryside Drive to 1150 metres northwesterly.	4,717	4,717	0	0	0
232174	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street from The Gore Road to approximately 1020 metres northeasterly, north of Castlemore Road.	990	990	0	0	0
Wastewater Development Services			12,392	12,392	0	0	0
159060	Victoria Yard Replacement	Construction of a new centralized Public Works facility to accomodate growth in PW program delivery requirements in the north Peel area. The new facility is proposed to include an environmentally friendly salt management facility, as well as indoor/outdoor storage for parts and other materials required to maintain Peel's assets. It will also include office space to support these programs, as well as fleet maintenance and repair facilities, indoor fleet parking for critical vehicles and equipment, and fueling/washing facilities for vehicles and equipment.	15,000	15,000	0	0	0

2023 Financing Sources and Funding Status (\$'000)

			2023				
<u>Projects</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
239020	Vehicle and Gas Powered Equipment	Replacement of regional vehicles and equipment and system upgrades.	10,291	1,900	8,391	0	0
239040	Public Works Facility Repair and Maintenance	Planned repairs and replacements at various Public Works facilities as indicated in Building Condition Assessments.	976	0	976	0	0
239085	Electric Vehicle Charging Infrastructure	Installation of electrical infrastructure at various Public Works Facilities to accommodate the charging requirements for anticipated Fleet electric vehicle purchases.	2,000	0	2,000	0	0
239247	Mavis Yard Expansion	Expansion of the Mavis Yard facility to build additional workspace capacity at the Transhelp Mavis Road location to accommodate staff and operations from the existing Copper Road location. This will amalgamate Transhelp staff and operations into a single location from the current 2-facility model. This will also allow for significant growth capacity at the Copper Yard location for other Public Works programs, such as Water, Wastewater and Roads Operations.	5,000	2,000	3,000	0	0
Operations Support - Tax			33,267	18,900	14,367	0	0

2023 Financing Sources and Funding Status (\$'000)

			2023				
<u>Projects</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
207500	Billing System Upgrade	Upgrade to a new version of billing system, to be implemented, since the current system will no longer be supported effective November 2020.	1,940	0	1,940	0	0
209800	Public Works Health & Safety Initiative	To implement a Health & Safety program for Public Works department	980	0	980	0	0
217900	Commercial Water Meter Replacement	Replacement of obsolete commercial water meters.	1,750	0	1,750	0	0
217910	Residential Water Meter Replacement	Replacement of obsolete residential water meters.	8,900	0	8,900	0	0
217940	Meter Installation Equipment	New equipment (handheld devices) for field staff as part of the switch to electronic work orders.	100	0	100	0	0
239013	Technology Initiatives	To maintain Public Works systems, support technology related initiatives/IT enhancements and to sustain technology related work going forward.	1,500	0	1,500	0	0

2023 Financing Sources and Funding Status (\$'000)

			2023				
<u>Projects</u>	<u>Name</u>	<u>Description</u>	<i>Total Expense</i>	<i>Development Charges</i>	<i>Reserves & Reserve Funds</i>	<i>External Funding</i>	<i>Debt Funding</i>
239050	Wolfedale Yard Expansion	Wolfedale Yard is the main Mississauga area Public Works facility for Water/Wastewater operations and also serves as the central fleet maintenance facility for all off-site Mississauga based Region owned vehicles. This project is for the expansion of Wolfedale Yard in order to accommodate growth of Regional fleet parking, maintenance and operational storage requirements.	16,000	11,200	4,800	0	0
239075	Waste Soils Dewatering Facilities	Construction of two (2) dewatering facilities at existing Public Works properties to manage and process waste materials from hydro excavation activities. The proposed new facilities will provide an effective and efficient method of separating the water from the soil before ultimate disposal of soil in compliance with Excess Soils Regulations.	1,000	0	1,000	0	0
Operations Support - Utility			32,170	11,200	20,970	0	0
Water & Wastewater			641,442	312,177	329,265	0	0

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
121420	Rehabilitation and Upgrade of the Queensway Sub-Transmission Main	Rehabilitation and upgrade of the Queensway Sub-Transmission Main to provide additional east-west transfer capacity in Pressure Zone 2.	5,000	15,000	0	0	0	0	20,000
141240	East Brampton Transmission Main Twinning	Construction of a 1500-mm transmission main from the Beckett-Sproule Pumping Station to the East Brampton Reservoir.	0	0	0	0	0	10,773	10,773
141256	Williams Parkway Sub-Transmission Main	Construction of a 900-mm Pressure Zone 5 Central sub-transmission main from Dixie Road to the West Brampton Pumping Station.	0	10,500	0	4,998	0	63,000	78,498
141257	Central Brampton Sub-Transmission Main	Construction of a Pressure Zone 5 Central sub-transmission main from the Beckett-Sproule Pumping Station to the East Brampton Pumping Station.	0	0	0	0	0	8,834	8,834
141346	System Improvements in Central Erin Mills (Phase 2)	Implementation of system improvements in central Erin Mills to improve water quality, reliability and residual pressure for customers. Additional funds.	4,000	0	0	0	0	0	4,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
151138	600-mm Water Main - Heritage Road (Bram West)	Construction of a 600-mm water main from the Meadowvale North Pumping Station to Steeles Avenue West. Additional funds.	8,500	0	0	0	0	0	8,500
161166	750-mm Water Main - Goreway Drive	Construction of a 750-mm water main on Goreway Drive from Castlemore Road to Countryside Drive. Additional funds.	5,500	0	0	0	0	0	5,500
171340	Replacement of 300-mm Water Main on McVean Drive	Replacement of the existing 300-mm water main on McVean Drive from Castlemore Road to Countryside Drive. Additional funds.	4,500	0	0	0	0	0	4,500
181169	600-mm Water Main - Queen Street East (Bram East)	Construction of a 600-mm water main on Queen Street East from Goreway Drive to Cherrycrest Drive. Additional funds.	5,500	0	0	0	0	0	5,500
181310	Replacement of Water Mains in Mississauga	Replacement of water mains, system improvements and looping of dead-end mains in Mississauga to improve water quality and reliability of the distribution system. Additional funds.	2,250	0	0	0	0	0	2,250
181340	Replacement of 300-mm Water Main on Williams Parkway East	Replacement of the 300-mm water main on Williams Parkway East from Main Street North to Southlake Boulevard. Additional funds.	3,000	0	0	0	0	0	3,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
181394	Queen Elizabeth Way Widening (Cawthra to East Mall) - Water Impacts	Replacement or relocation of water mains in conjunction with the widening of the Queen Elizabeth Way.	2,000	0	0	0	0	0	2,000
181422	2100-mm Hanlan Transmission Main - Rehabilitation	Rehabilitation of the 2100-mm Hanlan Transmission Main following the commissioning of the new 2400-mm Hanlan Transmission Main. Additional funds.	20,000	0	0	0	0	0	20,000
191120	750-mm Water Main - Lakeshore Road West	Construction of a 750-mm water main on Lakeshore Road West from the Lorne Park Water Treatment Plant to Elmwood Avenue.	1,000	30,000	0	0	0	0	31,000
191156	750-mm Water Main - Centre Street	Construction of a 750-mm water main on Centre Street from Williams Parkway to John Street.	0	41,157	0	0	0	0	41,157
191172	600-mm Water Main - Clarkway Drive	Construction of a 600-mm water main on Clarkway Drive from Castlemore Road northerly to the future east-west road.	7,000	0	0	0	0	0	7,000
191189	400-mm Water Main - Old School Road	Construction of a 400-mm water main on Old School Road from Heart Lake Road to Dixie Road.	0	0	2,625	0	0	0	2,625

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
191581	Caledon East - New Groundwater Well - Class Environmental Assessment	Class Environmental Assessment (EA) for a new groundwater well to service future development in Caledon East.	250	0	0	0	0	0	250
191592	Water Long-Term Financial Plan	Development of a long-term financial plan for the water system, including a review of the rate structure and stakeholder engagement.	250	0	0	0	0	0	250
201119	400-mm Water Main - Extension of Square One Drive (Mississauga City Centre)	Construction of a 400-mm water main on the extension of Square One Drive from Confederation Parkway to Rathburn Road West. Additional funds.	250	0	0	0	0	0	250
201175	400-mm Water Main - Future Street (Highway 427 Industrial)	Construction of a 400-mm water main on a future street from Highway 50 to Coleraine Drive.	0	0	0	0	1,242	0	1,242
201583	Palgrave - New Groundwater Well - Class Environmental Assessment	Class Environmental Assessment for a new groundwater well to service future development in Palgrave.	100	0	0	0	0	0	100
211015	Water Enterprise Asset Management Implementation Program	Funding the implementation of the water enterprise asset management system and other costs related to asset management maturity.	700	1,850	1,850	0	0	0	4,400

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
211114	400-mm Water Main - Ninth Line (Ninth Line Lands)	Construction of a 400-mm water main on Ninth Line from Derry Road West to 620 metres southerly.	2,188	0	0	0	0	0	2,188
211923	A.P. Kennedy Water Treatment Plant - Treated Water Reservoir Expansion	Construction of a new 35-million-litre treated water reservoir at the A.P. Kennedy Water Treatment Plant. Design in 2023.	0	8,100	0	54,000	0	0	62,100
211951	Snelgrove Elevated Tank - Decommissioning	Decommissioning of the Snelgrove Elevated Tank after the Victoria Reservoir and Transmission Main are in service. Assessment in 2023.	275	0	3,250	0	0	0	3,525
211974	Beckett Sproule Transfer Pumping Station - Capacity Expansion	Installation of additional transfer pumping capacity at the Beckett Sproule Pumping Station. Approximately 71% funded by York Region.	0	7,500	0	0	0	0	7,500
211976	North Brampton Reservoir and Pumping Station - Improvements and Upgrades	Improvements and upgrades at the North Brampton Reservoir and Pumping Station.	8,100	0	0	0	0	0	8,100
211978	Beckett Sproule Pumping Station - Improvements and Upgrades	Construction of improvements and upgrades at the Beckett Sproule Pumping Station.	0	18,900	0	0	0	0	18,900
221112	400-mm Water Main - Derry Road West (Ninth Line Lands)	Construction of a 400-mm water main on Derry Road West from Tenth Line West to Ninth Line.	2,878	0	0	0	0	0	2,878

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
221113	400-mm Water Main - Ninth Line (Ninth Line Lands)	Construction of a 400-mm water main on Ninth Line from Derry Road West to Terragar Boulevard.	2,577	0	0	0	0	0	2,577
221125	900-mm/600-mm Water Main - Easement/Rangeview Road (Inspiration Lakeview)	Construction of a 900-mm/600-mm water main in an easement and on Rangeview Road from the A.P. Kennedy Water Treatment Plant to Lakefront Promenade.	0	0	11,065	0	0	0	11,065
221161	750-mm Water Main - Goreway Drive	Construction of a 750-mm water main on Goreway Drive from Intermodal Drive to Steeles Avenue East.	0	18,992	0	0	0	0	18,992
221310	Replacement of Water Mains in Mississauga	Replacement of water mains, system improvements and looping of dead-end mains in Mississauga to improve water quality and reliability of the distribution system. Additional funds.	8,000	0	0	0	0	0	8,000
221506	Master Plan for the Groundwater-Based Systems	Review and update of the Region of Peel's Master Plan for the lake-based water supply system.	500	0	0	0	0	0	500
221832	Palgrave - New Groundwater Well	Construction of a new municipal groundwater well in Palgrave to service future development in Palgrave Village and Palgrave Estates. Design in 2023.	500	1,200	0	0	0	0	1,700

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
221924	A.P. Kennedy Water Treatment Plant - Lake Ontario Monitoring System	Installation of a system to monitor lake currents at the A.P. Kennedy Water Treatment Plant under the Lake Ontario Collaborative Group.	0	2,500	0	0	0	0	2,500
221934	Lorne Park Water Treatment Plant - Lake Ontario Monitoring System	Installation of a system to monitor lake currents at the Lorne Park Water Treatment Plant under the Lake Ontario Collaborative Group.	0	2,500	0	0	0	0	2,500
221936	Lorne Park Water Treatment Plant - Electrical Upgrades	Implementation of various electrical upgrades at the Lorne Park Water Treatment Plant.	1,375	0	0	0	0	0	1,375
221986	Meadowvale North Pumping Station Expansion - Transient Protection	Expansion of the Meadowvale North Pumping Station with the construction of a new hydro-pneumatic air chamber (HAC) for transient protection.	0	15,750	0	0	0	0	15,750
221987	North Brampton Pumping Station Expansion - Transient Protection	Expansion of the North Brampton Pumping Station with the construction of a new hydro-pneumatic air chamber (HAC) for transient protection. Design in 2024.	0	2,520	0	16,800	0	0	19,320
221988	Airport Road Pumping Station Expansion - Transient Protection	Expansion of the Airport Road Pumping Station with the construction of a new hydro-pneumatic air chamber (HAC) for transient protection.	0	16,800	0	0	0	0	16,800

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
221992	Hanlan West Pumping Station	Construction of a new pumping station with a logistics, training and storage facility. Design in 2023.	1,000	6,500	0	0	0	0	7,500
231000	Unallocated Funds for the Water Program	Funding available for unforeseen, unplanned or emergency water-related works valued under \$250,000.	1,000	1,000	1,000	1,000	1,000	5,000	10,000
231002	Easement Acquisition for Existing Water Infrastructure	Funding for the acquisition of easements for existing water infrastructure.	100	100	100	100	100	500	1,000
231016	Water Enterprise Asset Management Implementation Program for OCWA	Funding the implementation of the water enterprise asset management system for OCWA and other costs related to asset management maturity.	3,500	450	0	0	0	0	3,950
231127	600-mm Water Main - Derry Road East	Construction of a 600-mm water main on Derry Road East from Dixie Road to Airport Road. Design in 2023.	2,821	0	15,447	0	0	0	18,268
231160	600-mm Water Main - Queen Street East (Bram East)	Construction of a 600-mm water main on Queen Street East from Cherrycrest Drive to the Gore Road. Design in 2023.	1,339	0	6,063	0	0	0	7,402
231162	400-mm Water Main - Queen Street East (Bram East)	Construction of a 400-mm water main on Queen Street East from The Gore Road to Highway 50. Design in 2023.	315	0	1,534	0	0	0	1,850

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
231174	600-mm Water Main - Clarkway Drive (Highway 427 Industrial)	Construction of a 600-mm water main on Clarkway Drive from Mayfield Road to Countryside Drive. Design in 2023.	632	0	2,946	0	0	0	3,578
231195	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from a future street north of Mayfield Road to Healey Road. Design in 2024.	625	0	2,947	0	0	0	3,572
231196	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from Mayfield Road to 1450 metres northerly. Design in 2023.	826	0	3,920	0	0	0	4,746
231227	Queensway Sub-Transmission Main Extension	Construction of a 900-mm/1500-mm sub-transmission main from Haines Road to Dixie Road. Design in 2023.	4,000	0	0	38,006	0	0	42,006
231300	Water Distribution System - Major Maintenance	Funding for major maintenance of the Region of Peel's water distribution system.	2,100	2,100	2,100	2,100	2,100	10,500	21,000
231302	Valve Rehabilitation and Replacement Program	Rehabilitation and replacement program for large diameter valves in the lake-based water distribution system.	5,000	5,000	5,000	5,000	5,000	25,000	50,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
231303	Design for the Replacement of Water Mains in Peel	Funding for the design of water main replacement projects in the Region of Peel for the following year to facilitate on-time construction.	3,500	3,500	3,500	3,500	3,500	17,500	35,000
231305	Water Distribution System - Condition Assessment Program	Inspection and condition assessment program for the lake-based water distribution system.	250	250	250	250	250	1,250	2,500
231310	Replacement of Water Mains in Mississauga	Replacement of water mains, system improvements and looping of dead-end mains in Mississauga to improve water quality and reliability of the distribution system.	21,003	20,000	20,000	20,000	20,000	95,000	196,003
231340	Replacement of Water Mains in Brampton	Replacement of water mains, system improvements and looping of dead-end mains in Brampton to improve water quality and reliability of the distribution system.	11,510	8,000	8,000	8,000	8,000	37,500	81,010
231370	Replacement of Water Mains in Caledon	Replacement of water mains, system improvements and looping of dead-end mains in Caledon to improve water quality and reliability of the distribution system.	2,487	1,000	1,000	1,000	1,000	5,000	11,487

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
231405	Transmission Main Inspection Program	Inspection and condition assessment program for the lake-based water transmission mains and implementation of real-time monitoring.	4,500	2,500	2,500	2,500	2,500	12,500	27,000
231406	Flow Monitoring for the Lake-Based Water Supply System	Installation of flow and pressure monitoring equipment for the lake-based water transmission and distribution systems.	1,500	1,500	0	0	0	0	3,000
231407	Major Maintenance for the Water Transmission System	Major maintenance for the lake-based water transmission mains.	3,000	3,000	3,000	3,000	3,000	15,000	30,000
231408	Transmission Main Rehabilitation Program	Rehabilitation program for the lake-based water transmission mains.	5,000	5,000	5,000	5,000	5,000	32,500	57,500
231419	Transient Protection Program for the Water Transmission Mains	Program to replace existing transient protection on the lake-based transmission mains.	500	500	500	0	0	0	1,500
231424	1500-mm Streetsville Transmission Main - Rehabilitation	Rehabilitation of the 1500-mm Streetsville Transmission Main. Design in 2023.	2,000	4,000	0	0	0	0	6,000
231431	1200-mm Meadowvale North Transmission Main - Rehabilitation	Rehabilitation of the 1200-mm Meadowvale North Transmission Main. Design in 2023.	2,000	0	5,000	0	0	0	7,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
231432	1500-mm Beckett Sproule Transmission Main - Rehabilitation	Rehabilitation of the 1500-mm Beckett Sproule Transmission Main. Design in 2023.	2,000	0	4,000	0	0	0	6,000
231501	Hydraulic Water Modelling Support	Funding for hydraulic water modelling support for the Division to support day-to-day operations, emergency planning, growth planning and planned shutdowns.	300	300	300	300	300	1,500	3,000
231520	Non-Growth-Related Water Infrastructure Planning	Asset management and other non-growth-related studies for the Region's water system.	1,000	1,000	1,000	1,000	1,000	5,000	10,000
231525	Groundwater Well Monitoring Program	Implementation of an automated system to collect real-time groundwater data for our well-based systems.	100	100	100	100	100	500	1,000
231526	Groundwater Well Structural Casing Analysis	Structural assessment and integrity analysis of municipal groundwater well casings to meet the enhanced requirements of the Ministry of the Environment, Conservation and Parks.	200	100	0	0	0	0	300
231527	Caledon Village and Palgrave Feasibility Analysis	Additional studies to investigate the declining efficiency of municipal groundwater wells in Caledon.	150	0	0	0	0	0	150
231530	Development-Related Water Infrastructure Planning	Funding for water infrastructure planning and studies related to new development.	2,000	2,000	2,000	2,000	2,000	10,000	20,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
231531	Water Resources Support to Water Capital Projects	Funding to support water capital projects for any issues related to water resources.	150	150	150	150	150	750	1,500
231532	Source Water Protection	Funding for various activities related to source water protection, including wellhead protection area delineation, risk management, modelling, threats verification and climate change assessments.	300	300	300	300	300	1,500	3,000
231535	Long-Term Property Acquisition Strategy	Development of a comprehensive long-term property acquisition strategy for Public Works.	100	0	0	0	0	0	100
231540	Water and Wastewater Operations and Optimization Studies	Various studies and investigations related to the efficient operation and optimization of Peel's water and wastewater treatment plants.	500	500	500	500	500	2,500	5,000
231590	External Agency Project Impacts on Water Infrastructure	Various studies, investigations and pre-design related to the impacts of external agency projects in Peel's water infrastructure.	100	100	100	100	100	500	1,000
231805	Groundwater Systems - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement for the groundwater systems.	650	750	1,000	1,250	1,500	11,500	16,650

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
231810	Groundwater Systems - Condition Assessment Program	Condition assessment of facilities that are part of the groundwater systems and development of a maintenance plan.	100	100	100	100	100	500	1,000
231830	Caledon East - New Groundwater Well	Construction of a new municipal groundwater well in Caledon East to service future development. Design in 2023.	1,375	0	9,160	0	0	0	10,535
231902	Transmission Facilities - Condition Assessment Program	Condition assessment of the lake-based transmission facilities and development of a maintenance plan.	100	100	100	100	100	500	1,000
231903	Transmission Facilities - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the lake-based pumping stations, reservoirs and elevated tanks.	3,150	3,150	3,150	3,150	3,150	15,750	31,500
231906	A.P. Kennedy Water Treatment Plant - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the A.P. Kennedy Water Treatment Plant.	2,300	2,300	2,300	2,300	2,300	11,500	23,000
231907	Lorne Park Water Treatment Plant - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the Lorne Park Water Treatment Plant.	1,250	1,250	1,250	1,250	1,250	6,250	12,500

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
231908	Water Treatment Research and Innovation	Funding for collaborative research and innovation projects to improve the efficiency and effectiveness of treatment operations for the lake-based water system.	350	350	350	350	350	1,750	3,500
231909	Replacement of Membrane Filters at the A.P. Kennedy Water Treatment Plant	Replacement program for the membrane filters at the A.P. Kennedy Water Treatment Plant.	9,240	9,240	0	9,800	11,100	10,000	49,380
231915	Reservoir Rehabilitation and Improvement Program	Program to rehabilitate and upgrade various reservoirs in the lake-based water supply system.	750	750	750	750	0	0	3,000
231920	A.P. Kennedy Water Treatment Plant - Condition Assessment Program	Condition assessment of the A.P. Kennedy Water Treatment Plant and development of a maintenance plan.	200	200	200	200	200	1,000	2,000
231930	Lorne Park Water Treatment Plant - Condition Assessment Program	Condition assessment of the Lorne Park Water Treatment Plant and development of a maintenance plan.	150	150	150	150	150	750	1,500
231942	West Caledon Elevated Tank	Construction of a new 10-million-litre elevated tank in southwest Caledon to provide storage for Pressure Zone 7. Property acquisition in 2023 and design in 2024.	4,200	2,560	0	17,030	0	0	23,790

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
231981	Improvements to Automation Equipment at the Water Facilities	Funding for various improvements and upgrades to the automation equipment at the water treatment plants.	2,450	2,000	900	0	0	0	5,350
231983	Cellular Repeater Installation at the Water Treatment Plants	Installation of cellular repeaters at the water treatment plants for health and safety to provide cellular signal in tunnels and other dead spots. Design in 2023.	1,100	3,600	0	0	0	0	4,700
231989	A.P. Kennedy Water Treatment Plant Expansion - Transient Protection	Expansion of the A.P. Kennedy Water Treatment Plant with the construction of a new transient protection.	2,625	0	0	0	0	0	2,625
231990	Lorne Park Water Treatment Plant Expansion - Transient Protection	Expansion of the Lorne Park Water Treatment Plant with the construction of a new transient protection.	2,625	0	0	0	0	0	2,625
231994	Silverthorn Pumping Station Expansion - Transient Protection	Expansion of the Silverthorn Pumping Station with the construction of new transient protection.	1,200	0	0	0	0	0	1,200
241130	750-mm Water Main - Bovaird Drive West (Heritage Heights)	Construction of a 750-mm water main on Bovaird Drive West from Mississauga Road to Heritage Road. Design in 2024.	0	1,184	0	5,746	0	0	6,930

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
241133	600-mm Water Main - Future Williams Parkway (Bram West)	Construction of a 600-mm water main on the future extension of Williams Parkway from Heritage Road to Mississauga Road. Design in 2024.	0	570	0	2,777	0	0	3,347
241134	900-mm Water Main - Heritage Road (Heritage Heights)	Construction of a 900-mm water main on Heritage Road from the West Brampton Pumping Station to Bovaird Drive. Design in 2024.	0	1,477	0	6,894	0	0	8,372
241138	600-mm Water Main - Heritage Road (Bram West)	Construction of a 600-mm water main on Heritage Road from the future extension of Williams Parkway to the New Road A in Bram West. Design in 2024.	0	1,649	0	7,513	0	0	9,162
241170	750-mm Water Main - Countryside Drive (Highway 427 Industrial)	Construction of a 750-mm water main on Countryside Drive from The Gore Road to Clarkway Drive. Design in 2024.	0	1,177	0	5,718	0	0	6,895
241180	750-mm Water Main - Creditview Road	Construction of a 750-mm water main on Creditview Road from the future West Caledon Elevated Tank to Old School Road. Design in 2024.	0	1,753	0	8,304	0	0	10,057
241181	750-mm Water Main - Old School Road	Construction of a 750-mm water main on Old School Road from Creditview Road to Chinguacousy Road. Design in 2024.	0	1,318	0	5,829	0	0	7,147

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
241182	600-mm Water Main - Chinguacousy Road	Construction of a 600-mm water main on Chinguacousy Road from Old School Road to 2080 metres southerly. Design in 2024.	0	1,512	0	6,687	0	0	8,199
241193	750-mm Water Main - Healey Road (Bolton West)	Construction of a 750-mm water main on Healey Road from Coleraine Drive to Humber Station Road. Design in 2024.	0	1,011	0	4,583	0	0	5,594
241194	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from Healey Road to future street northerly. Design in 2024.	0	407	0	1,896	0	0	2,303
241270	West Caledon Transmission Main	Construction of a 750-mm transmission main from the Alloa Pumping Station to the future West Caledon Elevated Tank. Design in 2024.	0	7,248	0	23,942	0	0	31,189
241423	2400-mm Hanlan Transmission Main - Rehabilitation	Rehabilitation of the 2400-mm Hanlan Transmission Main following completion of rehabilitation work on the 2100-mm Hanlan Transmission Main. Design in 2024.	0	1,500	0	10,000	0	0	11,500
241509	Water Distribution System Asset Management Plan	Update of the long-term state of good repair plan for the Region's water distribution system.	0	250	0	0	0	750	1,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
241510	Water Transmission System Asset Management Plan	Development of a long-term state of good repair plan for the Region's water transmission system.	0	750	0	0	0	0	750
241565	Meadowvale North Transmission Main - Class Environmental Assessment	Class Environmental Assessment for a new 1800-mm transmission main from the Streetsville Pumping Station to the Meadowvale North Reservoir.	0	1,500	0	0	0	0	1,500
241566	Streetsville Transmission Main - Class Environmental Assessment	Class Environmental Assessment for a 2100-mm new transmission main from the Herridge Pumping Station to the Streetsville Reservoir.	0	1,500	0	0	0	0	1,500
241831	Inglewood Village - New Groundwater Well	Construction of a new municipal groundwater well in Inglewood to service future development. Design in 2024.	0	1,615	0	10,775	0	0	12,390
241843	Groundwater Well Facilities - Ultraviolet Disinfection	Installation of ultraviolet disinfection at six of the groundwater well facilities in Caledon.	0	3,200	3,200	0	0	0	6,400
241911	A.P. Kennedy Water Treatment Plant - Replacement of Granular Activated Carbon	Replacement program for the granular activated carbon filter media used to mitigate taste and odour at the A.P. Kennedy Water Treatment Plant.	0	4,850	0	5,250	0	5,250	15,350

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
241912	Lorne Park Water Treatment Plant - Replacement of Granular Activated Carbon	Replacement program for the granular activated carbon filter media used to mitigate taste and odour at the Lorne Park Water Treatment Plant.	0	4,000	0	0	4,000	0	8,000
241954	East Brampton Reservoir - Improvements and Upgrades	Improvements and upgrades at the East Brampton Reservoir.	0	24,150	0	0	0	0	24,150
251115	400-mm Water Main - Extension of Living Arts Drive (Mississauga City Centre)	Construction of a 400-mm water main on the future extension of Living Arts Drive from Centre View Drive to Rathburn Road West. Design in 2025.	0	0	86	0	380	0	466
251116	400-mm Water Main - Centre View Drive (Mississauga City Centre)	Construction of a 400-mm water main on Centre View Drive from the future extension of Living Arts Drive to Station Gate Road. Design in 2025.	0	0	180	0	935	0	1,114
251117	400-mm Water Main - Centre View Drive (Mississauga City Centre)	Construction of a 400-mm water main on Centre View Drive from Station Gate Road to Rathburn Road. Design in 2025.	0	0	311	0	1,447	0	1,759
251118	400-mm Water Main - Station Gate Road (Mississauga City Centre)	Construction of a 400-mm water main on Station Gate Road from Rathburn Road to Centre View Drive. Design in 2025.	0	0	80	0	353	0	433

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
251124	400-mm Water Main - Camilla Road	Construction of a 400-mm water main on Camilla Road from Dundas Street East to King Street East. Design in 2025.	0	0	104	0	529	0	633
251502	Hydraulic Water Model Update	Update and calibration of the Region's hydraulic water model.	0	0	2,000	0	0	2,000	4,000
251983	West Brampton Pumping Station - Capacity Expansion	Installation of additional high-lift pumping capacity at the West Brampton Pumping Station. Design in 2024.	0	0	265	1,575	0	0	1,840
261017	Annual Maintenance of the Enterprise Asset Management System	Funding the ongoing maintenance of the water enterprise asset management system.	0	0	0	750	750	3,750	5,250
261123	600-mm Water Main - Atlantic Avenue/Creekbank Road	Construction of a 600-mm water main on Atlantic Avenue and the future extension of Creekbank Road from Britannia Road East to Sismet Road. Design in 2026.	0	0	0	2,736	0	12,653	15,389
261132	400-mm Water Main - Winston Churchill Boulevard	Construction of a 400-mm water main on Winston Churchill Boulevard from Embleton Road to the New Road A. Design in 2026.	0	0	0	669	0	3,142	3,810

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
261135	600-mm Water Main - Heritage Road (Huttonville North)	Construction of a 600-mm water main on Heritage Road from Bovaird Drive northerly to a future street. Design in 2026.	0	0	0	732	0	3,348	4,080
261136	600-mm Water Main - Heritage Road (Huttonville North)	Construction of a 600-mm water main on Heritage Road from the future extension of Sandalwood Parkway southerly to a future street. Design in 2026.	0	0	0	616	0	3,053	3,668
261171	600-mm Water Main - Countryside Drive (Highway 427 Industrial)	Construction of a 600-mm water main on Countryside Drive from Clarkway Drive to the future north-south road. Design in 2026.	0	0	0	806	0	3,837	4,643
261503	York-Peel Capital Infrastructure Study	Validation of the replacement costs for the water and wastewater capital infrastructure that are shared by Peel and York Regions.	0	0	0	100	0	100	200
261941	Silverthorn Reservoir Expansion	Expansion of the storage capacity at the Silverthorn facility with the construction of a new reservoir cell. Design in 2026.	0	0	0	2,100	21,000	0	23,100
271191	400-mm Water Main - Humber Station Road (Bolton West)	Construction of a 400-mm water main on Humber Station Road from a future street north of Healey Road to 1200 metres northerly. Design in 2027.	0	0	0	0	400	1,866	2,266

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
271192	750-mm Water Main - Healey Road	Construction of a 750-mm water main on Healey Road from Innis Lake Road to Humber Station Road. Design in 2027.	0	0	0	0	2,643	14,692	17,335
271193	900-mm Water Main - Innis Lake Road	Construction of a 900-mm water main on Innis Lake Road from the Tullamore Pumping Station to Healey Road. Design in 2027.	0	0	0	0	2,298	10,334	12,632
271228	Streetsville Transmission Main	Construction of a 2100-mm transmission main from the Herridge Pumping Station to the Streetsville Reservoir. Design in 2027.	0	0	0	0	34,727	227,863	262,590
271418	1500-mm Herridge Transmission Main - Rehabilitation	Rehabilitation of the 1500-mm Herridge Transmission Main and installation of acoustic fibre optic condition monitoring equipment.	0	0	0	0	7,000	0	7,000
271504	Master Plan for the Lake-Based Water Supply System	Review and update of the Region of Peel's Master Plan for the lake-based water supply system.	0	0	0	0	1,500	1,500	3,000
271991	A.P. Kennedy Water Treatment Plant - Standby Power	Upgrade and expansion of the standby power capacity at the A.P. Kennedy Water Treatment Plant. Design in 2027.	0	0	0	0	1,100	12,600	13,700
271992	Transmission System - Standby Power	Upgrade and expansion of the standby power capacity at various water facilities. Design in 2027.	0	0	0	0	1,100	12,600	13,700

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
271998	Future Non-Growth-Related Water Facilities Projects	Funding for non-growth-related water facilities projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	20,000	359,470	379,470
281199	Future Growth-Related Distribution Water Main Projects (Capital)	Funding for growth-related distribution water main projects in the sixth year or later of the Region's capital plan for the Water Program that are managed by Capital Works.	0	0	0	0	0	90,327	90,327
281299	Future Transmission System Projects	Funding for transmission system projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	403,763	403,763
281395	Future System Improvements to Address Low Pressure Issues	Allocation of funding for system improvements to address low pressure issues in the Region of Peel.	0	0	0	0	0	54,549	54,549
281910	Replacement of Membrane Filters at the Lorne Park Water Treatment Plant	Replacement program for the membrane filters at the Lorne Park Water Treatment Plant.	0	0	0	0	0	16,800	16,800
281995	Future Transient Protection Projects at the Lake-Based Water Facilities	Funding for future transient protection projects at the lake-based water facilities in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	81,800	81,800

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
281996	Future Non-Growth-Related Treatment Facility Projects	Funding for future non-growth-related water treatment facilities projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	157,500	157,500
281997	Future Growth-Related Treatment Facility Projects	Funding for growth-related water treatment facilities projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	3,230	3,230
281999	Future Growth-Related Water Facilities Projects	Funding for growth-related water facilities projects in the sixth year or later of the Region's capital plan for the Water Program.	0	0	0	0	0	7,660	7,660
Water			217,417	351,339	142,684	322,131	177,504	1,916,044	3,127,118
221140	400-mm Water Main - Future Lagerfeld Drive (Mount Pleasant)	Construction of a 400-mm water main on the future extension of Lagerfeld Drive from Mississauga Road to Creditview Road.	4,714	0	0	0	0	0	4,714
231137	400-mm Water Main - Future Lagerfeld Drive (Heritage Heights)	Construction of a 400-mm water main on the future extension of Lagerfeld Drive from Mississauga Road to 800 metres westerly.	1,560	0	0	0	0	0	1,560
241178	400-mm Water Main - Future East-West Road (Highway 427 Industrial)	Construction of a 400-mm water main on the future east-west road from The Gore Road to Clarkway Drive.	0	2,519	0	0	0	0	2,519

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
251129	Construction of various water mains in Lakeview Village	Construction of various water mains in the Lakeview Village development area.	0	0	3,593	0	0	0	3,593
251197	400-mm Water Main - Future Extension of George Bolton Parkway	Construction of a 400-mm water main on the future extension of George Bolton Parkway from Coleraine Drive to Humber Station Road.	0	0	2,105	0	0	0	2,105
271131	400-mm Water Main - Future Financial Drive (Bram West)	Construction of a 400-mm water main on the future Financial Drive from Heritage Road to Winston Churchill Boulevard.	0	0	0	0	3,631	0	3,631
271173	600-mm Water Main - Future Street (Highway 427 Industrial)	Construction of a 600-mm water main on the future east-west road from Clarkway Drive to the future north-south road.	0	0	0	0	1,063	0	1,063
271179	400-mm Water Main - Future Street (Highway 427 Industrial)	Construction of a 400-mm water main on the future east-west road from Coleraine Drive to the future north-south road.	0	0	0	0	1,168	0	1,168
271190	600-mm Water Main - Future Street (Bolton West)	Construction of a 600-mm on a future street from the West Bolton Elevated Tank to Humber Station Road.	0	0	0	0	1,614	0	1,614

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
281198	Future Growth-Related Distribution Water Main Projects (Development)	Funding for growth-related distribution water main projects in the sixth year or later of the Region's capital plan for the Water Program that are managed by Development Services.	0	0	0	0	0	26,373	26,373
Water Development Services			6,274	2,519	5,698	0	7,476	26,373	48,340
142930	Clarkson Water Resource Recovery Facility Major Capital Improvement - Primary Treatment	Replacement of the travelling bridges in the primary settling tanks at the Clarkson Water Resource Recovery Facility.	0	4,000	0	0	0	0	4,000
152241	Cooksville Creek to Burnhamthorpe Road Sanitary Trunk Sewer Diversion	Construction of a diversion from the Cooksville Creek Sanitary Trunk Sewer to the Burnhamthorpe Road Sanitary Trunk Sewer. Additional funds.	4,000	0	0	0	0	0	4,000
162300	Local Collection System Repair and Replacement	Funding for sanitary sewer repairs, replacements and relining including alignment of projects with area municipalities and other divisions. Additional funds.	5,000	0	0	0	0	0	5,000
182252	Cawthra Road Sanitary Trunk Sewer (Phases 2 and 3)	Construction of a 1500-mm sanitary trunk sewer on Cawthra Road from Burnhamthorpe Road East to south of Dundas Street East. Additional funds.	0	10,000	0	0	0	0	10,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
182260	Etobicoke Creek Sanitary Trunk Sewer Twinning - Class	Class Environmental Assessment for a new sanitary trunk sewer in the Etobicoke Creek watershed. Additional funds.	750	0	0	0	0	0	750
182394	Queens Elizabeth Way Widening (Cawthra to Etobicoke Creek) -with the widening of the Wastewater Impacts	Replacement or relocation of sanitary sewers in conjunction with the widening of the Queens Elizabeth Way from the Etobicoke Creek to Cawthra Road.	2,000	0	0	0	0	0	2,000
182905	Sewage Pumping Station Rehabilitation Program (Phase 2)	Rehabilitation, upgrade or replacement of sewage pumping stations in the lake-based wastewater collection system.	10,000	15,000	10,000	0	0	0	35,000
182976	McVean Sewage Pumping Station Expansion	Expansion of the McVean Sewage Pumping Station to a firm capacity of 2100 litres per second.	25,200	9,875	0	0	0	0	35,075
192158	600-mm Sanitary Sewer - Malta Avenue/Easement	Construction of a 600-mm sanitary sewer on Malta Avenue and a future easement from the Fletcher's Creek Sanitary Trunk Sewer to Tina Court. Additional funds.	0	5,600	0	0	0	0	5,600
192208	Upper West Sanitary Trunk Sewer Diversion	Construction of 1500-mm sanitary trunk sewers on Britannia Road, Mississauga Road and Erin Centre Boulevard in the vicinity of Streetsville.	0	0	120,000	0	0	0	120,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
192215	Lakeshore Road West Sanitary Trunk Sewer	Construction of a sanitary trunk sewer on Lakeshore Road West from east of the Credit River to the Jack Darling 1 Sewage Pumping Station.	1,000	146,000	0	0	0	0	147,000
192410	Erin Mills Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Erin Mills Sanitary Trunk Sewer from Erin Mills Parkway to Mississauga Road.	6,000	0	0	0	0	0	6,000
192592	Wastewater Long-Term Financial Plan	Development of a long-term financial plan for the wastewater system, including a review of the rate structure and stakeholder engagement.	250	0	0	0	0	0	250
192924	G.E. Booth Water Resource Recovery Facility Automation Consolidation	Consolidation of Supervisory Control and Data Acquisition System (SCADA) equipment and removal of legacy product upgrades at the G.E. Booth Water Resource Recovery Facility.	1,500	6,000	2,000	0	0	0	9,500
192934	Clarkson Water Resource Recovery Facility Automation Consolidation	Consolidation of Supervisory Control and Data Acquisition System (SCADA) equipment and removal of legacy product upgrades at the Clarkson Water Resource Recovery Facility.	1,200	5,000	1,000	0	0	0	7,200

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
192981	Wastewater System Supervisory Control and Data Acquisition (SCADA) Improvements	Various improvements to the Supervisory Control and Data Acquisition (SCADA) systems at the lake-based wastewater facilities.	500	1,200	0	0	0	0	1,700
202450	East Brampton Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the East Brampton Sanitary Trunk Sewer from Humberwest Parkway north of Queen Street East to north of Steeles Avenue East.	0	25,000	0	0	0	0	25,000
202453	Burnhamthorpe Road East Sanitary Trunk Sewer	Construction of a 1200-mm sanitary trunk sewer on Burnhamthorpe Road East from The Little Etobicoke Creek Sanitary Trunk Sewer to Cawthra Road. Additional funds.	0	6,000	0	0	0	0	6,000
202951	Clarkson Water Resource Recovery Facility Primary Thickening Facility	Construction of a primary treatment thickening facility to support the expansion of the Clarkson Water Resource Recovery Facility.	45,000	0	0	0	0	0	45,000
202961	G.E. Booth Water Resource Recovery Facility Odour Control Improvements	Implementation of the recommendations of the odour study with the anticipation of additional odour control necessary as redevelopment occurs in the vicinity of the treatment facility.	0	140,500	0	0	0	0	140,500

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
202992	Clarkson Water Resource Recovery Facility CoGen Facility Expansion	Twinning of the CoGen facility at the Clarkson Water Resource Recovery Facility as part of the strategic energy plan. Additional funds.	3,700	0	0	0	0	0	3,700
212015	Wastewater Enterprise Asset Management Implementation Program	Funding the implementation of the wastewater enterprise asset management system and other costs related to asset management maturity.	700	1,850	1,850	0	0	0	4,400
212402	Sanitary Trunk Sewer Inflow and Infiltration Implementation	Condition assessment and rehabilitation of sanitary trunk sewers and maintenance holes to reduce inflow and infiltration.	5,000	0	0	0	0	0	5,000
212408	Sanitary Trunk Sewer Erosion Risk Management Program	Development and implementation of a program to rehabilitate and protect exposed sanitary trunk sewers within floodplains near watercourses. In coordination with the conservation authorities.	0	8,000	0	0	0	0	8,000
212411	Sawmill Creek and Levi Creek Sanitary Trunk Sewers - Rehabilitation	Rehabilitation of the Sawmill Creek and Levi Creek Sanitary Trunk Sewers.	6,000	0	0	0	0	0	6,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
212444	Upper Cooksville Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Upper Cooksville Creek Sanitary Trunk Sewer from north of Eglinton Avenue West to Burnhamthorpe Road East.	0	15,000	0	0	0	0	15,000
222254	Cawthra Road Sanitary Trunk Sewer (Phase 4)	Construction of a 1500-mm sanitary trunk sewer on Burnhamthorpe Road East from Central Parkway East to Wilcox Road.	0	32,255	0	0	0	0	32,255
222255	Queensway East Sanitary Trunk Sewer	Construction of a 1800-mm sanitary trunk sewer on The Queensway from Hurontario Street to the East Sanitary Trunk Sewer south of The Queensway.	0	0	0	138,731	0	0	138,731
222256	Cawthra Road Sanitary Trunk Sewer (Phase 5)	Construction of a 1500-mm sanitary trunk sewer on Cawthra Road from Dundas Street to The Queensway East.	0	0	0	25,951	0	0	25,951
222321	375-mm Sanitary Sewer - Mississauga Road (Port Credit)	Construction of a 375-mm sanitary sewer on Mississauga Road from the Indian Road Sewage Pumping Station to Lakeshore Road West.	5,000	0	1,000	0	5,260	0	11,260
222456	Lower Cooksville Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Lower Cooksville Creek Sanitary Trunk Sewer from Burnhamthorpe Road East to The Queensway.	0	0	8,000	0	0	0	8,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
222581	Bolton Residential Expansion Class Environmental Assessment	Class Environmental Assessment for new wastewater infrastructure to service growth in the Bolton Residential Expansion Area. Additional funds.	750	0	0	0	0	0	750
222923	G.E. Booth Water Resource Recovery Facility - Plant 2 Blower Replacement	Replacement of the existing three blowers at Plant 2 with six multi-stage high-efficiency blowers.	35,000	0	0	0	0	0	35,000
222944	G.E. Booth Water Resource Recovery Facility Expansion - New Outfall	Construction of a new outfall at the G.E. Booth Water Resource Recovery Facility to accommodate a peak flow of 2,000 million litres per day.	0	0	175,000	0	0	0	175,000
222950	Clarkson Wastewater Treatment Plant Expansion	Expansion of liquids treatment capacity of the Clarkson Wastewater Treatment Plant from 350 to 500 million litres per day. Design in 2023 and 2024.	36,000	60,000	25,000	290,000	0	0	411,000
232000	Unallocated Funds for the Wastewater Program	Funding available for unforeseen, unplanned or emergency wastewater-related works.	1,000	1,000	1,000	1,000	1,000	5,000	10,000
232002	Easement Acquisition for Existing Wastewater Infrastructure	Funding for the acquisition of easements for existing wastewater infrastructure.	100	100	100	100	100	500	1,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
232016	Water Enterprise Asset Management Implementation Program for OCWA	Funding the implementation of the wastewater enterprise asset management system for OCWA and other costs related to asset management maturity.	3,500	450	0	0	0	0	3,950
232100	Inflow and Infiltration Prevention Program	Program to prevent new sources of inflow and infiltration, including the installation of flow monitors at the sanitary sewer outlets of new subdivisions.	200	200	200	200	200	1,000	2,000
232126	600-mm Sanitary Sewer - Kingsbridge Garden Circle/Elia Avenue (Uptown Mississauga)	Construction of a 600-mm sanitary sewer on Kingsbridge Garden Circle and Elia Avenue from Jenkins Crescent to Sorrento Drive. Design in 2023.	679	3,005	0	0	0	0	3,685
232127	525-mm Sanitary Sewer - Aviation Road	Construction of a 525-mm sanitary sewer on Aviation Road from the Beach Street Sewage Pumping Station to Lakeshore Road East.	9,000	0	0	0	0	0	9,000
232128	600-mm Sanitary Sewer - Lakeshore Road East	Construction of a 600-mm sanitary sewer on Lakeshore Road East from Aviation Road to East Avenue.	10,000	0	0	0	0	0	10,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
232129	525-mm Sanitary Sewer - Kirwin Avenue/Little John Lane (Cooksville)	Construction of a 525-mm sanitary sewer on Kirwin Avenue and Little John Lane from Hurontario Street to the Lower Cooksville Creek Sanitary Trunk Sewer. Design in 2023.	518	2,590	0	0	0	0	3,108
232150	450-mm Sanitary Sewer - Easement (Bramalea City Centre)	Construction of a 450-mm sanitary sewer in an easement from Central Park Drive and Knightsbridge Road to Kensington Road and Kings Cross Road. Design in 2023.	411	2,596	0	0	0	0	3,007
232165	675-mm Sanitary Sewer - Queen Street East (Bram East)	Construction of a 675-mm sanitary sewer on Queen Street East from The Gore Road to McVean Drive. Design in 2023.	1,983	0	8,901	0	0	0	10,884
232192	375-mm/450-mm Sanitary Sewer - George Bolton Parkway Extension/Industrial Road	Construction of a 375-mm/450-mm sanitary sewer on the future extension of George Bolton Parkway and Industrial Road. Design in 2023.	416	1,011	858	0	0	0	2,284
232261	Etobicoke Creek Sanitary Trunk Sewer Twinning	Construction of a 1500-mm sanitary trunk sewer in the Etobicoke Creek valley from Kennedy Road to Derry Road East. Design in 2023.	16,152	0	116,364	0	0	0	132,516

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
232270	Humber Station Road Sanitary Trunk Sewer (Phase 1)	Construction of a 750-mm sanitary trunk sewer on Humber Station Road from Mayfield Road to 1600 metres northerly. Design in 2023.	986	0	4,362	0	0	0	5,348
232271	Humber Station Road Sanitary Trunk Sewer (Phase 2)	Construction of a 750-mm sanitary trunk sewer on Humber Station Road from Healey Road to 1600 metres southerly. Design in 2023.	1,044	0	4,617	0	0	0	5,661
232272	Clarkway Sanitary Trunk Sewer	Construction of a 750-mm sanitary trunk sewer on Clarkway Drive from Countryside Drive to Mayfield Road. Design in 2023.	2,104	0	6,165	0	0	0	8,269
232300	Local Collection System Repair and Replacement	Funding for sanitary sewer repairs, replacements and relining including alignment of projects with area municipalities and other divisions.	24,280	25,000	30,000	35,000	40,000	255,000	409,280
232301	Implementation of Inflow and Infiltration Remediation Measures	Funding the implementation of remediation measures to reduce inflow and infiltration into the Region's sanitary sewer system.	3,000	5,140	6,450	5,000	5,000	28,380	52,970
232302	Wastewater Collection System - Major Maintenance and Emergency Repairs	Funding for major maintenance of the Region of Peel's wastewater collection system.	1,000	1,000	1,000	1,000	1,000	5,000	10,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
232303	Design of Sanitary Sewer Repair and Replacement in Peel	Funding for the design of sanitary sewer repair and replacement projects in the Region of Peel for the following year to facilitate on-time construction.	3,500	3,500	3,500	3,500	3,500	17,500	35,000
232304	Force Main Inspection and Condition Assessment Program	Periodic and ongoing inspection and condition assessment of the sanitary force mains.	500	500	500	500	500	2,500	5,000
232305	Force Main Rehabilitation Program	Periodic and ongoing inspection and condition assessment of the sanitary force mains.	750	750	750	1,000	1,000	7,500	11,750
232307	Sanitary Maintenance Hole Rehabilitation Program	Funding to rehabilitate sanitary maintenance holes in the Region's wastewater collection system.	5,000	5,000	3,000	3,000	3,000	15,000	34,000
232401	Wastewater Flow and Rainfall Monitoring Program	Installation, operation and maintenance of permanent and temporary flow monitors and rainfall gauges in the Region's lake-based wastewater collection system.	2,400	2,400	2,400	2,400	2,400	12,000	24,000
232405	Sanitary Trunk Sewer Inspection and Condition Assessment Program	Inspection, cleaning and condition assessment of the lake-based primary collection system.	2,500	2,500	2,500	2,500	2,500	12,500	25,000
232407	Sanitary Trunk Sewer Rehabilitation Program	Miscellaneous sanitary trunk sewer rehabilitation activities for the lake-based primary collection system.	2,000	2,000	2,000	2,000	2,000	10,000	20,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
232465	Spring Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Spring Creek Sanitary Trunk Sewer from Steeles Avenue East to north of Clark Boulevard. Design in 2023.	2,000	0	5,000	0	0	0	7,000
232468	Etobicoke Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Etobicoke Creek Sanitary Trunk Sewer from Conservation Drive to Archdekin Park. Assessment in 2023.	3,000	0	15,000	0	0	0	18,000
232501	Hydraulic Wastewater Modelling Support	Funding for hydraulic wastewater modelling support for the Division to support day-to-day operations, emergency planning, growth planning and planned shutdowns.	300	300	300	300	300	1,500	3,000
232503	Studies Related to the York-Peel Water and Wastewater Servicing Agreements	Various studies related to the Water and Wastewater York-Peel Servicing Agreements.	300	0	0	0	0	0	300
232512	Inflow and Infiltration Remediation Program	Collection and analysis of data and development of solutions to reduce inflow and infiltration in the sanitary collection system.	2,500	3,000	3,000	3,000	3,000	15,000	29,500
232520	Non-Growth-Related Wastewater Infrastructure Planning	Asset management and other non-growth-related studies for the Region's wastewater system.	1,000	1,000	1,000	1,000	1,000	5,000	10,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
232530	Development-Related Wastewater Infrastructure Planning	Funding for wastewater infrastructure planning and studies related to new development.	2,000	2,000	2,000	2,000	2,000	10,000	20,000
232531	Water Resources Support to the Wastewater Program	Funding to support wastewater capital projects for any issues related to water resources.	150	150	150	150	150	750	1,500
232582	Lower West Sanitary Trunk Sewer Twinning - Class Environmental Assessment	Class Environmental Assessment for the twinning of the Lower West Sanitary Trunk Sewer.	1,500	0	0	0	0	0	1,500
232590	External Agency Project Impacts on Wastewater Infrastructure	Various studies, investigations and pre-design related to the impacts of external agency projects in Peel's wastewater infrastructure.	100	100	100	100	100	500	1,000
232904	Sewage Pumping Stations - Condition Assessment Program	Funding for condition assessment of sewage pumping stations in the lake-based wastewater collection system.	1,000	1,000	1,000	1,000	1,000	5,000	10,000
232905	Sewage Pumping Stations - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the lake-based sewage pumping stations.	2,000	2,000	2,000	2,000	2,000	17,500	27,500
232906	Clarkson Water Resource Recovery Facility Major Maintenance	Funding for planned major maintenance and equipment replacement at the Clarkson Water Resource Recovery Facility.	3,000	3,000	3,000	3,000	3,000	15,000	30,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
232907	G.E. Booth Water Resource Recovery Facility - Major Maintenance and Equipment Replacement	Funding for planned major maintenance and equipment replacement at the G.E. Booth Water Resource Recovery Facility.	3,500	7,000	4,000	4,000	4,000	20,000	42,500
232908	G.E. Booth Water Resource Recovery Facility - Biosolids Major Maintenance	Funding for planned major maintenance and equipment replacement for the biosolids process at the G.E. Booth Water Resource Recovery Facility.	5,500	4,000	4,000	4,000	4,000	27,500	49,000
232920	G.E. Booth Water Resource Recovery Facility - Condition Assessment Program	Condition assessment of the G.E. Booth Water Resource Recovery Facility and development of a maintenance plan.	150	150	150	150	150	750	1,500
232922	G.E. Booth Water Resource Recovery Facility - Major Capital Improvement - Diffusers	Replacement of the fine bubble diffusers at the G.E. Booth Water Resource Recovery Facility.	1,000	1,000	1,000	1,000	1,000	0	5,000
232930	Clarkson Water Resource Recovery Facility - Condition Assessment Program	Condition assessment of the Clarkson Water Resource Recovery Facility and development of a maintenance plan.	100	100	100	100	100	500	1,000
232936	Clarkson Water Resource Recovery Facility - Health and Safety Upgrades	Various upgrades related to health and safety at disposal locations at the Clarkson Water Resource Recovery Facility.	500	0	0	0	0	0	500

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
232952	Clarkson Water Resource Recovery Facility - Biosolids Expansion	Expansion of the biosolids process at the Clarkson Water Resource Recovery Facility to service growth in the Region of Peel.	20,000	0	194,000	0	0	0	214,000
232975	Sewage Pumping Station Flow Meter Replacements	Replacement of flow meters at various sewage pumping stations in Peel.	300	360	0	0	0	0	660
232981	Miscellaneous Supervisory Control and Data Acquisition Improvements for the Wastewater Facilities	Funding for various improvements and upgrades to the automation equipment at the water resource recovery facilities.	1,350	900	900	0	0	0	3,150
232983	Cellular Repeater Installation at the Water Resource Recovery Facilities	Installation of cellular repeaters at the water resource recovery facilities for health and safety to provide cellular signal in tunnels and other dead spots. Design in 2023.	1,100	3,600	0	0	0	0	4,700
242193	600-mm Sanitary Sewer - Healey Road (Bolton West)	Construction of a 600-mm sanitary sewer on Healey Road from Humber Station Road to Coleraine Drive. Design in 2024.	0	625	0	2,808	0	0	3,434
242221	Heritage Heights Sanitary Trunk Sewer (Phase 1)	Construction of a 750-mm sanitary trunk sewer on the future extension of Williams Parkway from Mississauga Road to Heritage Road. Design in 2024.	0	4,962	0	21,949	0	0	26,911

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
242222	Heritage Heights Sanitary Trunk Sewer (Phase 2)	Construction of a 675-mm sanitary trunk sewer on Heritage Road from 1025 metres south of Bovaird Drive to 955 metres north of Bovaird Drive. Design in 2024.	0	2,354	0	10,414	0	0	12,768
242412	Upper West Sanitary Trunk Sewer (East Leg) - Rehabilitation	Rehabilitation of the east leg of the Upper West Sanitary Trunk Sewer from Britannia Road West to Dundas Street West. Design in 2024.	0	5,000	0	20,000	20,000	0	45,000
242455	Mississauga Industrial Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Mississauga Industrial Sanitary Trunk Sewer from Datsun Road to east of Luke Road. Design in 2024.	0	2,000	0	6,000	0	0	8,000
242457	GTAA Sanitary Trunk Sewer Rehabilitation	Rehabilitation of Peel-owned sanitary trunk sewers within the GTAA property. Assessment in 2024.	0	3,000	0	8,000	0	0	11,000
242466	Etobicoke Creek Sanitary Trunk Sewer (East Leg) - Rehabilitation	Rehabilitation of the east leg of the Etobicoke Creek Sanitary Trunk Sewer from north of Steeles Avenue East to Kennedy Road. Assessment in 2024.	0	3,000	0	10,000	0	0	13,000
242470	Lower Mimico Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Lower Mimico Creek Sanitary Trunk Sewer from west of Goreway Drive to north of Derry Road East. Design in 2024.	0	2,000	0	4,000	0	0	6,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
242509	Wastewater Collection System Asset Management Plan	Development of a long-term state of good repair plan for the Region's wastewater collection system.	0	250	0	0	0	750	1,000
242510	Primary Collection System Asset Management Plan	Development of a long-term state of good repair plan for the Region's primary wastewater collection system.	0	750	0	0	0	0	750
242592	McVean Diversion Sanitary Trunk Sewer - Class Environmental Assessment	Class Environmental Assessment to determine the preferred strategy to defer flows away from the McVean Sewage Pumping Station to service future development in northeast Brampton and southeast Caledon.	0	1,500	0	0	0	0	1,500
242593	Central Brampton Wastewater Capacity Improvements - Class Environmental Assessment	Class Environmental Assessment to develop a wastewater servicing plan for central Brampton.	0	2,000	0	0	0	0	2,000
242594	Bramalea Sanitary Trunk Sewer - Class Environmental Assessment	Class Environmental Assessment for a new sanitary trunk sewer on Bramalea Road.	0	1,500	0	0	0	0	1,500
242917	G.E. Booth Water Resource Recovery Facility - Site Security Improvements	Removal and replacement of existing site fencing along the east side of the G.E. Booth Water Resource Recovery Facility.	0	1,100	0	0	0	0	1,100

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
242943	G.E. Booth Water Resource Recovery Facility - Administration Building	Construction of a new administration building, parking structure, maintenance complex and standby power at the G.E. Booth Water Resource Recovery Facility. Design in 2024.	0	5,000	0	50,000	0	0	55,000
242971	Beach Street Sewage Pumping Station - Rehabilitation and Repurposing	Rehabilitation and repurposing of the Beach Street Sewage Pumping Station. Design in 2024.	0	2,100	0	5,250	0	0	7,350
242980	Jack Darling 3 Sewage Pumping Station	Construction of a new sewage pumping station (Jack Darling 3) at the western end of the Lakeshore West Sanitary Trunk Sewer. Design in 2024.	0	3,150	0	22,000	0	0	25,150
242994	Strategic Energy Plan for the G.E. Booth Water Resource Recovery Facility	Various improvements at the G.E. Booth Water Resource Recovery Facility to implement the recommendations of the Strategic Energy Plan.	0	2,100	1,313	0	0	0	3,413
252135	525-mm Sanitary Sewer - Heritage Road (Bram West)	Construction of a 525-mm sanitary sewer on Heritage Road from the future Financial Drive to 750 metres southerly. Design in 2025.	0	0	900	0	4,043	0	4,943

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
252219	Lower West Sanitary Trunk Sewer Twinning	Construction of a 2400-mm sanitary trunk sewer on Southdown Road and through easements from Lincoln Green Way to the Clarkson Water Resource Recovery Facility. Design in 2025.	0	0	11,541	0	80,149	0	91,690
252322	375-mm Sanitary Sewer - Maple Avenue South (Port Credit)	Construction of a 375-mm sanitary sewer on Maple Avenue South from the former BenMachree Sewage Pumping Station to Lakeshore Road West. Design in 2025.	0	0	2,155	0	8,620	0	10,775
252323	375-mm Sanitary Sewer - Jack Darling Park	Construction of a 375-mm sanitary sewer from the Jack Darling 2 Sewage Pumping Station to the Jack Darling 1 Sewage Pumping Station. Design in 2025.	0	0	2,155	0	7,541	0	9,696
252325	375-mm Sanitary Sewer - Elmwood Avenue South	Construction of a 375-mm sanitary sewer on Elmwood Avenue South from the Elwood Avenue Sewage Pumping Station to Lakeshore Road East. Design in 2025.	0	0	486	0	2,151	0	2,637
252445	East Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the East Sanitary Trunk Sewer from Derry Road East to Dundas Street East. Design in 2025.	0	0	6,000	0	50,000	0	56,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
252447	Little Etobicoke Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Little Etobicoke Creek Sanitary Trunk Sewer from Bloor Street to Dundas Street East. Design in 2025.	0	0	3,000	0	8,000	0	11,000
252448	Little Etobicoke Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Little Etobicoke Creek Sanitary Trunk Sewer from Eglinton Avenue East to Eastgate Parkway. Design in 2025.	0	0	3,000	0	8,000	0	11,000
252502	Hydraulic Wastewater Model Update	Update and calibration of the Region's hydraulic wastewater model.	0	0	2,500	0	0	2,500	5,000
252937	Clarkson Water Resource Recovery Facility - Disgestor Coating Program	Program to install internal coatings in the five digesters at the Clarkson Water Resource Recovery Facility.	0	0	400	400	400	800	2,000
252942	G.E. Booth Water Resource Recovery Facility - Ash Management Facility	Construction of a new ash management facility at the G.E. Booth Water Resource Recovery Facility. Design in 2025.	0	0	3,000	0	30,000	0	33,000
252945	G.E. Booth Water Resource Recovery Facility Expansion	Expansion of the liquids treatment capacity at the G.E. Booth Water Resource Recovery Facility to 550 ML/d. Design in 2025 and 2027.	0	0	10,000	0	65,000	390,000	465,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
252960	Future Odour and Corrosion Control Facilities	Construction of new odour and corrosion control facilities at various locations in the Region of Peel.	0	0	5,764	0	9,766	0	15,530
262017	Annual Maintenance of the Enterprise Asset Management System	Funding the ongoing maintenance of the wastewater enterprise asset management system.	0	0	0	750	750	3,750	5,250
262176	525-mm Sanitary Sewer - Countryside Drive (Highway 427 Industrial)	Construction of a 525-mm sanitary sewer on Countryside Drive from Clarkway Drive to approximately 690 metres easterly. Design in 2026.	0	0	0	758	0	3,405	4,163
262268	Castlemore Road Sanitary Trunk Sewer	Construction of a 1500-mm sanitary trunk sewer on Castlemore Road from Highway 50 to Airport Road. Design in 2026.	0	0	0	20,543	0	138,966	159,509
262269	Upper East Sanitary Trunk Sewer (Phase 1)	Construction of a 2400-mm sanitary trunk sewer on Airport Road from Castlemore Road to Queen Street. Design in 2026.	0	0	0	15,936	0	107,806	123,742
262467	Etobicoke Creek Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the Etobicoke Creek Sanitary Trunk Sewer from Kennedy Road to north of Derry Road East. Assessment in 2026.	0	0	0	3,500	0	15,000	18,500

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
262469	McVean Sanitary Trunk Sewer - Rehabilitation	Rehabilitation of the McVean Sanitary Trunk Sewer from south of Cottrelle Boulevard to north of Ebenezer Road. Assessment in 2026.	0	0	0	3,000	8,000	0	11,000
262946	G.E. Booth Water Resource Recovery Facility Expansion - Biosolids	Expansion of the biosolids process capacity at the G.E. Booth Water Resource Recovery Facility to service growth in the Region of Peel. Design in 2026.	0	0	0	15,000	5,000	120,000	140,000
262978	Decommissioning of Sewage Pumping Stations in Port Credit	Decommissioning of seven sewage pumping stations once the Lakeshore West Sanitary Trunk Sewer and associated infrastructure is in service. Design in 2026.	0	0	0	3,150	0	6,300	9,450
272194	600-mm Sanitary Sewer - Humber Station Road	Construction of a 600-mm sanitary sewer on Humber Station Road from Healey Road to 1080 metres northerly. Design in 2027.	0	0	0	0	462	2,044	2,506
272195	600-mm Sanitary Sewer - Humber Station Road	Construction of a 600-mm sanitary sewer on Humber Station Road from 1080 metres north of Healey Road to 790 metres northerly. Design in 2027.	0	0	0	0	843	3,728	4,571

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
272504	Wastewater Master Servicing Plan Update	Review and update of the Region of Peel's Master Servicing Plan for the lake-based wastewater collection system.	0	0	0	0	1,500	1,500	3,000
282199	Future Local Collection System Projects (Capital)	Funding for local collection system projects in the sixth year or later of the Region's capital plan for the Wastewater Program that are managed by Capital Wastewater Collection.	0	0	0	0	0	43,996	43,996
282299	Future Primary Collection System Projects	Funding for primary collection system projects in the sixth year or later of the Region's capital plan for the Wastewater Program.	0	0	0	0	0	204,315	204,315
282499	Future Sanitary Trunk Sewer Rehabilitation Projects	Funding for future sanitary trunk sewer rehabilitation projects in the sixth year or later of the Region's capital plan for the Wastewater Program.	0	0	0	0	0	170,000	170,000
282599	Future Growth-Related Wastewater Studies	Funding for growth-related wastewater studies in the sixth year or later of the Region's capital plan for the Wastewater Program.	0	0	0	0	0	2,000	2,000
282998	Future Non-Growth-Related Water Resource Recovery Facility Projects	Future non-growth-related Water Resource Recovery Facility projects.	0	0	0	0	0	152,500	152,500

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
282999	Future Growth-Related Water Resource Recovery Facility Projects	Funding for growth-related wastewater facilities projects in the sixth year or later of the Region's capital plan for the Wastewater Program.	0	0	0	0	0	36,750	36,750
Wastewater			339,923	622,075	827,431	757,140	399,484	1,896,988	4,843,040
152151	525-mm Sanitary Sewer - Countryside Drive (Countryside Villages)	Construction of a 525-mm sanitary sewer on Countryside Drive from Airport Road to Inspire Boulevard. Additional funds.	1,987	0	0	0	0	0	1,987
222101	375-mm Sanitary Sewer - Ninth Line (Ninth Line Lands)	Construction of a 375-mm sanitary sewer on Ninth Line from Erin Centre Boulevard to 315 metres southerly. Additional funds.	1,763	0	0	0	0	0	1,763
232136	525/450-mm Sanitary Sewer - Easement (Heritage Heights)	Construction of a 525/450-mm sanitary sewer in an easement from Mississauga Road to 240 metres westerly.	1,280	0	0	0	0	0	1,280
232137	375-mm Sanitary Sewer - Future Streets (Heritage Heights)	Construction of a 375-mm sanitary sewer on future streets in Heritage Heights from the future 450-mm sanitary sewer in the easement to 425 metres northerly.	1,656	0	0	0	0	0	1,656
232154	450-mm Sanitary Sewer - Inspire Boulevard (Countryside Villages)	Construction of a 450-mm sanitary sewer on Inspire Boulevard from Countryside Drive to 1150 metres northwesterly.	4,717	0	0	0	0	0	4,717

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
232174	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street from The Gore Road to approximately 1020 metres northeasterly, north of Castlemore Road.	990	0	0	0	0	0	990
242103	375-mm Sanitary Sewer - Future Street (Ninth Line Lands)	Construction of a 375-mm sanitary sewer in the Ninth Line Lands on the Future Street A from the Future Street B to the Future Lane C.	0	980	0	0	0	0	980
242104	450-mm Sanitary Sewer - Future Street (Ninth Line Lands)	Construction of a 450-mm sanitary sewer in the Ninth Line Lands on the Future Street A and Future Street B from the Future Lane C to Ninth Line.	0	379	0	0	0	0	379
242105	450-mm Sanitary Sewer - Ninth Line (Ninth Line Lands)	Construction of a 450-mm sanitary sewer in the Ninth Line Lands on Ninth Line from Foxwood Avenue to 545 metres southerly.	0	689	0	0	0	0	689
242106	375-mm Sanitary Sewer - Future Street (Ninth Line Lands)	Construction of a 375-mm sanitary sewer on a future street from 225 metres southwest of Ninth Line to 300 metres southwesterly.	0	1,169	0	0	0	0	1,169
242157	525-mm Sanitary Sewer - Future Street (Countryside Villages)	Construction of a 525-mm sanitary sewer on a future street east of Bramalea Road from the future Inspire Boulevard to Mayfield Road.	0	1,645	0	0	0	0	1,645

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
242175	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street north of Castlemore Road from Clarkway Drive to approximately 1060 metres northeasterly.	0	4,129	0	0	0	0	4,129
242189	525-mm Sanitary Sewer - McLaughlin Road (Mayfield West Phase 2)	Construction of a 525-mm sanitary sewer on McLaughlin Road from 350 metres north of the future east-west spine road to 420 metres northerly.	0	475	0	0	0	0	475
252190	450-mm Sanitary Sewer - Future George Bolton Parkway	Construction of a 450-mm sanitary sewer on the future extension of George Bolton Parkway from Humber Station Road to 700 metres easterly.	0	0	2,828	0	0	0	2,828
262152	600-mm Sanitary Sewer - Future Street (Countryside Villages)	Construction of a 600-mm sanitary sewer on a future street west of Airport Road to approximately 1,070 metres northwesterly, north of Countryside Drive.	0	0	0	4,871	0	0	4,871
262155	600-mm Sanitary Sewer - Future Street (Countryside Villages)	Construction of a 600-mm sanitary sewer on a future street west of Airport Road from Mayfield Road to approximately 760 metres southerly.	0	0	0	3,787	0	0	3,787

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
272132	450-mm Sanitary Sewer - Future Financial Drive (Bram West)	Construction of a 450-mm sanitary sewer on the future Financial Drive from Heritage Road to approximately 700 metres westerly.	0	0	0	0	3,111	0	3,111
272134	375-mm Sanitary Sewer - Future Street (Bram West)	Construction of a 375-mm sanitary sewer on a future street east of Winston Churchill Boulevard from the future Financial Drive to 700 metres northerly.	0	0	0	0	679	0	679
272159	375-mm Sanitary Sewer - Future Malta Avenue	Construction of a 375-mm sanitary sewer on the future extension of Malta Avenue from Tina Court to 300 metres northerly.	0	0	0	0	349	0	349
272177	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street west of Coleraine Drive from Countryside Drive to 600 metres northerly.	0	0	0	0	470	0	470
272178	375-mm Sanitary Sewer - Future Street (Highway 427 Industrial)	Construction of a 375-mm sanitary sewer on a future street from Highway 50 to 810 metres northwesterly.	0	0	0	0	3,155	0	3,155
272191	450-mm Sanitary Sewer - Future Street (Bolton West)	Construction of a 450-mm sanitary sewer on a future street from the future extension of George Bolton Parkway to 500 metres northerly.	0	0	0	0	527	0	527

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
272192	450-mm Sanitary Sewer - Future Street (Bolton West)	Construction of a 450-mm sanitary sewer on a future street from Humber Station Road to 680 metres easterly, north of Healey Road.	0	0	0	0	716	0	716
272193	375-mm Sanitary Sewer - Future Street (Bolton West)	Construction of a 375-mm sanitary sewer on a future street from a future street east of Humber Station Road to 780 metres northerly.	0	0	0	0	757	0	757
282198	Future Local Collection System Projects (Development)	Funding for local collection system projects in the sixth year or later of the Region's capital plan for the Wastewater Program that are managed by Development Services.	0	0	0	0	0	20,418	20,418
Wastewater Development Services			12,392	9,465	2,828	8,659	9,765	20,418	63,526

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
159060	Victoria Yard Replacement	Construction of a new centralized Public Works facility to accommodate growth in PW program delivery requirements in the north Peel area. The new facility is proposed to include an environmentally friendly salt management facility, as well as indoor/outdoor storage for parts and other materials required to maintain Peel's assets. It will also include office space to support these programs, as well as fleet maintenance and repair facilities, indoor fleet parking for critical vehicles and equipment, and fueling/washing facilities for vehicles and equipment.	15,000	0	0	0	0	0	15,000
239020	Vehicle and Gas Powered Equipment	Replacement of regional vehicles and equipment and system upgrades.	10,291	3,763	5,022	6,563	5,462	43,830	74,930
239040	Public Works Facility Repair and Maintenance	Planned repairs and replacements at various Public Works facilities as indicated in Building Condition Assessments.	976	355	743	442	1,064	8,158	11,738

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
239085	Electric Vehicle Charging Infrastructure	Installation of electrical infrastructure at various Public Works Facilities to accommodate the charging requirements for anticipated Fleet electric vehicle purchases.	2,000	0	0	0	0	0	2,000
239247	Mavis Yard Expansion	Expansion of the Mavis Yard facility to build additional workspace capacity at the Transhelp Mavis Road location to accommodate staff and operations from the existing Copper Road location. This will amalgamate Transhelp staff and operations into a single location from the current 2-facility model. This will also allow for significant growth capacity at the Copper Yard location for other Public Works programs, such as Water, Wastewater and Roads Operations.	5,000	0	0	0	0	0	5,000
Operations Support - Tax			33,267	4,118	5,765	7,005	6,526	51,988	108,668
207500	Billing System Upgrade	Upgrade to a new version of billing system, to be implemented, since the current system will no longer be supported effective November 2020.	1,940	0	0	0	0	0	1,940

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
209800	Public Works Health & Safety Initiative	To implement a Health & Safety program for Public Works department	980	560	560	600	0	0	2,700
217900	Commercial Water Meter Replacement	Replacement of obsolete commercial water meters.	1,750	1,800	1,900	2,000	0	0	7,450
217910	Residential Water Meter Replacement	Replacement of obsolete residential water meters.	8,900	11,200	11,700	12,200	0	4,050	48,050
217940	Meter Installation Equipment	New equipment (handheld devices) for field staff as part of the switch to electronic work orders.	100	0	100	0	0	200	400
239013	Technology Initiatives	To maintain Public Works systems, support technology related initiatives/IT enhancements and to sustain technology related work going forward.	1,500	1,500	1,500	1,500	1,500	7,500	15,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
239050	Wolfedale Yard Expansion	Wolfedale Yard is the main Mississauga area Public Works facility for Water/Wastewater operations and also serves as the central fleet maintenance facility for all off-site Mississauga based Region owned vehicles. This project is for the expansion of Wolfedale Yard in order to accommodate growth of Regional fleet parking, maintenance and operational storage requirements.	16,000	0	0	0	0	0	16,000
239075	Waste Soils Dewatering Facilities	Construction of two (2) dewatering facilities at existing Public Works properties to manage and process waste materials from hydro excavation activities. The proposed new facilities will provide an effective and efficient method of separating the water from the soil before ultimate disposal of soil in compliance with Excess Soils Regulations.	1,000	0	0	0	0	0	1,000

2023 Ten Year Combined Capital Program (\$'000)

			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<u>Project</u>	<u>Name</u>	<u>Description</u>							
247930	Meter Reading Equipment	Upgrade of handheld Meter Reading equipment. Includes obtaining new drive-by computer software to be installed in a vehicle to remotely read RF (remote frequency) water meters while in the vehicle.	0	0	0	0	220	220	440
Operations Support - Utility			32,170	15,060	15,760	16,300	1,720	11,970	92,980
Water & Wastewater			641,442	1,004,575	1,000,167	1,111,235	602,474	3,923,781	8,283,673