## (2) Durham Budget AND BUDGETS

# CONSOLIDATED WATER SUPPLY AND SANITARY SEWERAGE 

Works Department - Water Supply and Sanitary Sewerage<br>Utility Finance<br>Corporate Items

Presented to Finance and Administration Committee on December 13, 2022


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Plans, designs, constructs, operates, and maintains Regional infrastructure related to the supply of drinking water and the protection of the water environment through the collection and treatment of sanitary sewage.


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Major Programs and Services

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## Major Programs and Services

## Water Supply System

## Watermain Cleaning and Repairs

Maintain and operate the Region's water distribution system by flushing watermains, cleaning through foam swabbing, repairing breaks, administering leak detection surveys, and preventing corrosion of infrastructure through cathodic protection.

## Valves and Hydrants

Maintain the Region's water valves and hydrants ensuring all are in good working condition.

## Water Connections

Maintain the Region's water connection inventory to provide potable water for domestic use and fire protection.

## Water Meter Repairs and Testing

Maintain the Region's water meter inventory to accurately measure the consumption of water by replacing meters based on age. Other work includes the calibration, testing, repair, and replacement of large meters as required.

## Depot Operations

Support the delivery of water infrastructure maintenance activities including watermain repairs, valve and hydrant operations and water meter repair, calibration, and replacement.

## Water Supply Plants - Plants East

Serve Bowmanville, Newcastle, Orono and Blackstock (comprised of two surface water plants, six storage facilities, three municipal groundwater wells and three water pumping stations) by providing potable water which meets all quality requirements prescribed by the Ministry of the Environment, Conservation and Parks' (MECP) legislation and regulations, accomplished through continuous monitoring of water quality and flows.

## Water Supply Plants - Plants Central

Serve Pickering, Ajax, Whitby, Oshawa and Courtice (Clarington) (comprised of three surface water plants, 13 water pumping stations and 11 storage facilities) by providing safe, potable water which meets all quality requirements prescribed by the MECP's legislation and regulations, accomplished through continuous monitoring of water quality and flows.

## Water Supply Plants - Plants North

Serve the Townships of Brock, Scugog and Uxbridge (comprised of one surface water plant, 20 municipal groundwater wells, seven storage facilities and one water pumping station) by providing safe, potable water which meets all quality requirements prescribed by the MECP's legislation and regulations, accomplished through continuous monitoring of water quality and flows.

## Major Programs and Services Continued

## Sun Valley Co-Operative Water System

A private water system operated by the Region on behalf of the Sun Valley Co-Operative comprised of 17 properties in the City of Oshawa to supply safe, potable water which meets all quality requirements prescribed by MECP's legislation and regulations accomplished through continuous monitoring of water quality and flows.

## SCADA Systems

The centralized SCADA (Supervisory Control and Data Acquisition) Systems Group based at the Oshawa Water Supply Plant monitors, gathers and processes real time data to control plant processes, directly interacting with sensors, valves, pumps, and motors while logging events for regulatory reporting requirements.

## Engineering and Staff Support

Support the delivery of capital projects and initiatives through planning, design and construction activities, including advancing the servicing of key Regional employment lands, providing real estate services for infrastructure projects including well head protection land acquisitions, maintaining linear infrastructure data within GIS systems, coordinating development applications with impacts to Regional services, providing technical support including water conservation programming, energy management guidance, oversight to the Region's Source Water Protection programs and supplying financial and administrative support services to all divisions within the Works Department.

## Facilities Management

Provide overall lifecycle management of all Regional facilities. Services include the design and construction of Regional facilities, delivery of major repair and renovation projects, lifecycle maintenance and replacement strategies, delivering corporate security services, and the ongoing and preventative maintenance and overall operation of Regional facilities, properties, and grounds.

## Administration

Provide the overall strategic planning and direction to all programs within the Works Department.
Headquarters Shared Costs - Works - Water Supply System Portion
The allocated share of costs attributable to the Works Department - Water Supply System for the operation of Regional Headquarters facility.

## Construction of Municipal Services

Plan, design, and construction of the water supply system major capital program.

## Major Programs and Services Continued

## Sanitary Sewerage System

## Cleaning, Repairs and Maintenance Holes

Maintain and operate the Region's sanitary sewerage collection system efficiently and effectively, undertaking spot repairs of damaged sanitary sewers, and scheduled cleaning of sanitary sewers and syphons.

## Sewer Connections

Maintain the Region's sanitary sewer connection inventory efficiently and effectively, safeguarding the public and environment from any public health hazards and ensuring continuity of service.

## Depot Operations

Support the delivery of sanitary sewerage infrastructure maintenance activities which include the maintenance, cleaning and repairs of sanitary sewers, maintenance holes and sewer connections.

## Water Pollution Control Plants and Pumping Stations

The water pollution control plants and sanitary sewerage pumping stations treat and convey sanitary sewerage, ensuring it meets the discharge requirements prescribed by the MECP. The system is comprised of 11 treatment plants and 51 pumping stations spread across the Region.

## Duffin Creek Water Pollution Control Plant

Operation of the plant, co-owned by the Regions of Durham and York, to treat sanitary sewage, ensuring it meets the discharge requirements prescribed by the MECP. The Duffin Creek Water Pollution Control Plant is one the largest water pollution control plants in Ontario.

## Regional Environmental Laboratory

Operation of a certified laboratory, co-owned by the Regions of Durham and York, which provides testing services for water and wastewater monitoring for the Regions of Durham and York, local municipalities, and private clients. Services are provided in accordance with the MECP License and laboratory accreditation for drinking water and wastewater requirements.

## Engineering and Staff Support

Support the delivery of capital projects and initiatives through planning, design and construction activities, including advancing the servicing of key Regional employment lands, providing real estate services for infrastructure projects including well head protection land acquisitions, maintaining linear infrastructure data within GIS systems, coordinating development applications with impacts to Regional services, providing technical support including water conservation programming, energy management guidance, oversight to the Region's Source Water Protection programs and supplying financial and administrative support services to all divisions within the Works Department.

## Major Programs and Services Continued

## Facilities Management

Provide overall lifecycle management of all Regional facilities. Services include the design and construction of Regional facilities, delivery of major repair and renovation projects, lifecycle maintenance and replacement strategies, delivering corporate security services, and the ongoing and preventative maintenance and overall operation of Regional facilities, properties, and grounds.

## Administration

The overall strategic planning and direction to all programs within the Works Department.
Headquarters Shared Costs - Works - Sanitary Sewerage System Portion
The allocated share of costs attributable to Works Department - Sanitary Sewerage System for the operation of Regional Headquarters for the operation of Regional Headquarters facility.

## Construction of Municipal Services

Plan, design, and construction of the sanitary sewerage system major capital program.

## Strategic Priorities

For 2023 some of the key priorities and planned actions focus on:

## Environmental Sustainability



Accelerate the adoption of green technologies and clean energy solutions through strategic partnerships and investment with internal and external partners and academic institutions. In 2023, work towards the implementation of an Energy Data Management Platform will continue, providing consolidated energy data for analysis and project planning.


Protect, preserve, and restore the natural environment including greenspaces, waterways, parks, trails, and farmlands by planning and implementing critical sanitary sewerage infrastructure identified through asset management planning.


Demonstrate leadership in sustainability and climate change action by mitigating the environmental impacts of projects and incorporating strategies in the construction and rehabilitation of Regional infrastructure and facilities by incorporating climate-friendly strategies.

Continued progress on a comprehensive water and wastewater GHG emissions management strategy including an assessment of the overall heat recovery potential from the Region's wastewater system. This study will inform on areas of the system which may yield the greatest degree of energy exchange potential, both for private sector participants wishing to utilize wastewater energy to displace traditional fossil fuel energy requirements for their respective developments, as well as for potential Regional opportunities.

## Community Vitality



Review and expand system capacity to facilitate balanced growth to provide an adequate mix of attainable housing for residents at all ages and stages of life. Through revitalized infrastructure, the Region will ensure traditional neighbourhoods remain great places to live and work, and build complete communities that are walkable, well-connected, and adequately served by nearby amenities.

Revitalize existing neighbourhoods and build complete communities that are walkable, well-connected, and have a mix of attainable housing through monitoring and assessing excess capacity available in existing sanitary sewer and water distribution systems.

## Strategic Priorities Continued

## Economic Prosperity



Streamlining review and payment processes; planning for growth; and positioning Durham Region as the location of choice for business by servicing strategic employment lands. Detailed design work overseen by the Region is ongoing for 3 projects identified in Report \#2020-COW-23-Regional Pre-servicing of Designated Employment Areas. Class EA work commenced for 2 projects in 2022, and 3 projects are being led by developers and are at various stages of design.

Provide a supportive environment for agriculture and agri-food industries by maintaining beneficial re-use of treated municipal wastewater solids (biosolids) on agricultural lands; and working collaboratively with industry to promote growth while maintaining a sewer-use program. In 2022, the Region and Durham College partnered to create a temporary urban farm on a future water supply infrastructure site. Construction of the farm will be completed in 2023 and cultivation will begin on site.

## Service Excellence



Optimize resources and partnerships to deliver exceptional quality services and value by continuing a "customer first" focus. To expedite ON1Call locate requests, additional resources are being proposed in the 2023 budget to address the demands for service resulting from increasing development activity across the Region.

Collaborate for a seamless service experience by seeking new partnerships with local municipalities. As part of the water meter renewal program, radio frequency remote meter reading technology is being installed to minimize manual meter readings.

Demonstrate commitment to continuous quality improvement and transparency through public engagement on all major public works initiatives in real time. Consultation for the Environmental Assessment to expand the sanitary sewerage capacity in Cannington will wrap up in 2023, with the commencement of detailed design to follow.

## Strategic Priorities Continued

Drive innovation through the continued evolution of the Region's Enterprise Maintenance Management System to increase efficiency in maintenance operations while collecting accurate and timely life cycle costs for analysis and planning; ongoing modernization of the review and approval of development engineering submissions through the PlanIT platform to expedite application reviews while ensuring requirements are met; and ongoing data management modernization and automation within the water supply and water pollution control plants to streamline reporting and increase operational efficiency.

Implement the recommendations of the Depot Modernization and Rationalization Study. The study's purpose was to assess the current depot network and recommend the most effective and efficient means of operation and site utilization strategies in response to the immediate, medium, and long-term needs of the Works Depots to meet growth across the Region. The implementation work will commence with the expansion of the Ajax Depot at its current location, and the relocation of the Oshawa/Whitby Depot, and will include energy efficient, low carbon measures while modernizing the function and layout of this critical infrastructure.

## Key Targets for 2023

## Water Supply System

- Maintain and operate 2,669 kilometres of watermains - $1.3 \%$ system growth over 2022
- Maintain and operate 29,232 valves - $1.5 \%$ growth over 2022
- Inspect and maintain 17,288 fire hydrants - 1.5\% increase over 2022 inventory
- Maintain 186,359 water supply connections $-1.1 \%$ system growth over 2022
- Treat 68,866 megalitres of water $-0.7 \%$ increase over projections for 2022


## Sanitary Sewerage System

- 2,323 kilometres of gravity, forcemains, and siphons of sanitary sewer maintained and operated $-1.2 \%$ system growth over 2022
- 182,623 sanitary sewer connections maintained - $1.1 \%$ system growth over 2022
- Treat a total of 174,543 megalitres of sanitary sewerage, a $1.2 \%$ increase from 2022 , with 124,754 megalitres flowing through Duffin Creek Water Pollution Control Plant
- Analyze 60,000 samples for 200,000 tests at the Regional Environmental Laboratory - consistent with 2022 volumes

Financial Details: Summary by Account (\$,000's)
Provides the gross expenditures and revenues - including both operating and capital - and the resulting net user rate requirement

| (\%) Durham | 2022 Estimated Actuals | 2022 Restated Budget | 2023 Proposed Budget | \$ Vari | \% |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Expenses |  |  |  |  |  |
| Operating Expenses |  |  |  |  |  |
| Personnel Expenses | 61,840 | 67,870 | 70,865 |  |  |
| Personnel Related | 1,877 | 2,193 | 2,269 |  |  |
| Communications | 1,086 | 1,093 | 1,130 |  |  |
| Supplies | 7,622 | 8,041 | 7,699 |  |  |
| Utilities | 20,158 | 20,155 | 23,503 |  |  |
| Chemicals | 10,285 | 8,747 | 14,549 |  |  |
| Computer Maintenance \& Operations | 967 | 901 | 877 |  |  |
| Materials \& Services | 11,154 | 8,538 | 8,802 |  |  |
| Buildings \& Grounds Operations | 5,162 | 4,822 | 4,923 |  |  |
| Equipment Maintenance \& Repairs | 3,574 | 3,762 | 3,814 |  |  |
| Vehicle Operations | 3,895 | 4,177 | 4,027 |  |  |
| Professional Services | 1,841 | 2,240 | 2,197 |  |  |
| Contracted Services | 4,252 | 4,274 | 4,773 |  |  |
| Leased Facilities Expenses | 60 | 43 | 43 |  |  |
| Financial Expenses | 2,901 | 2,887 | 3,133 |  |  |
| Property Taxes | 5,263 | 5,341 | 5,415 |  |  |
| Minor Assets \& Equipment | 353 | 441 | 192 |  |  |
| Major Repairs \& Renovations | 656 | 788 | 920 |  |  |
| Contribution to Reserves / Reserve Funds | 264 | 264 | 275 |  |  |
| Headquarters Shared Costs | 2,306 | 2,306 | 2,406 |  |  |
| Operating Expenses Subtotal | 145,516 | 148,883 | 161,812 | 12,929 | 8.7\% |

## Financial Details: Summary by Account (\$,000's)

Provides the gross expenditures and revenues - including both operating and capital - and the resulting net user rate requirement

| Durham Budget | 2022 Estimated Actuals | 2022 Restated Budget | 2023 Proposed Budget | \$ Vari | \% |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Internal Transfers \& Recoveries |  |  |  |  |  |
| NextGen Fees | 46 | 46 | 45 |  |  |
| Communications Charge | 362 | 362 | 365 |  |  |
| Corporate IT Charge | 321 | 321 | 358 |  |  |
| Corporate HR Charge | 160 | 160 | 160 |  |  |
| Works-Gen Tax Pyrl Charge | - | - | - |  |  |
| Works - General Administration Charge | 3,138 | 3,138 | 3,261 |  |  |
| Recovery - Ajax WSP - Labour | (4) | (4) | (43) |  |  |
| Recovery - Works - General Tax | (338) | (338) | (338) |  |  |
| Recovery - Regional Environmental Lab | (93) | (93) | (93) |  |  |
| Sunvalley Pyrl Recovery | - | - | - | - |  |
| Internal Transfers \& Recoveries Subtotal | 3,592 | 3,592 | 3,715 | 123 | 3.4\% |
| Gross Operating Expenses | 149,108 | 152,475 | 165,527 | 13,052 | 8.6\% |
| Capital Expenses |  |  |  |  |  |
| New | 3,111 | 3,111 | 33,950 |  |  |
| Replacement | 9,184 | 9,184 | 7,098 |  |  |
| Major Capital | 258,764 | 258,764 | 247,188 |  |  |
| Capital Expenses Subtotal | 271,059 | 271,059 | 288,236 | 17,177 | 6.3\% |
| Total Expenses | 420,167 | 423,534 | 453,763 | 30,229 | 7.1\% |
| Revenues and Financing |  |  |  |  |  |
| Operating Revenue |  |  |  |  |  |
| Fees \& Service Charges | $(6,810)$ | $(6,053)$ | $(6,875)$ |  |  |
| Sale of Publications | (10) | (19) | (16) |  |  |
| Rents | (29) | (48) | (49) |  |  |
| Sundry Revenue | $(1,203)$ | $(1,274)$ | $(1,176)$ |  |  |
| Revenue from Municipalities | $(31,734)$ | $(31,445)$ | $(37,825)$ |  |  |
| Revenue from Related Entities | (6) | (6) | (6) |  |  |
| Operating Revenue Subtotal | $(39,792)$ | $(38,845)$ | $(45,947)$ | $(7,102)$ | (18.3\%) |

Financial Details: Summary by Account (\$,000's)
Provides the gross expenditures and revenues - including both operating and capital - and the resulting net user rate requirement

| Durham Budget | 2022 Estimated Actuals | 2022 Restated Budget | 2023 Proposed Budget | \$ Vari | \% |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Capital Financing |  |  |  |  |  |
| Sewer Residential DC | $(25,703)$ | $(25,703)$ | $(36,203)$ |  |  |
| Sewer Commercial DC | $(2,341)$ | $(2,341)$ | $(2,609)$ |  |  |
| Sewer Industrial DC | (192) | (192) | $(1,874)$ |  |  |
| Water Residential DC | $(63,793)$ | $(63,793)$ | $(68,205)$ |  |  |
| Water Commercial DC | $(2,420)$ | $(2,420)$ | $(2,462)$ |  |  |
| Water Industrial DC | $(1,607)$ | $(1,607)$ | - |  |  |
| Servicing Employment Lands Water RF | (684) | (684) | - |  |  |
| Servicing Employment Lands Sewer RF | (509) | (509) | - |  |  |
| Sewer Asset Management RF | $(9,275)$ | $(9,275)$ | $(11,107)$ |  |  |
| Water Asset Management RF | $(5,623)$ | $(5,623)$ | $(5,764)$ |  |  |
| Recovery from York | $(63,388)$ | $(63,388)$ | $(40,691)$ |  |  |
| Federal Grant | (93) | (93) | - |  |  |
| Recovery from Reserve Funds - Capital | (797) | (797) | (475) |  |  |
| Sewer Rate Stabilization Reserve Fund | $(9,826)$ | $(9,825)$ | (442) |  |  |
| Water Rate Stabilization Reserve Fund | $(2,549)$ | $(2,549)$ | (311) |  |  |
| Debentures | - | - | $(31,333)$ |  |  |
| Capital Financing Subtotal | $(188,800)$ | $(188,799)$ | $(201,476)$ | $(12,677)$ | (6.7\%) |
| Total Revenues and Financing | $(228,592)$ | $(227,644)$ | $(247,423)$ | $(19,779)$ | (8.7\%) |
| User Rate Requirement Works Department - Water Supply System and Sanitary Sewerage System Total | 191,575 | 195,890 | 206,340 | 10,450 | 5.3\% |

## Provides the total operating expense, capital expense, subsidy, other revenue and the resulting user rate requirement for each major program and service

| Durham Budget | $2022$ <br> Estimated Actuals | 2022 Approved Budgets |  |  |  |  | 2023 Proposed Budgets |  |  |  |  | Variance |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Operating Expenses | Gross <br> Capital | Subsidy Funding | Other <br> Funding | Approved Budget | Operating <br> Expenses | Gross <br> Capital | Subsidy Funding | Other Funding | Proposed Budget | \$ | \% |
| Works Department - Water Supply System |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 Watermain Cleaning and Repairs | 3,812 | 3,545 | - | - | - | 3,545 | 3,481 | - | - | - | 3,481 | (64) |  |
| 2 Valves and Hydrants | 2,261 | 3,255 | - | - | (853) | 2,402 | 3,128 | - | - | (838) | 2,290 | (112) |  |
| 3 Water Connections | 4,228 | 4,725 | - | - | (497) | 4,228 | 4,405 | - | - | (510) | 3,895 | (333) |  |
| 4 Water Meter Repairs and Testing | 517 | 594 | - | - | (133) | 461 | 590 | - | - | (136) | 454 | (7) |  |
| 5 Depot Operations | 6,608 | 6,220 | 331 | - | (136) | 6,415 | 7,181 | 1,270 | - | (148) | 8,303 | 1,888 |  |
| 6 Water Supply Plants - Plants East | 3,338 | 3,332 | 235 | - | (89) | 3,478 | 3,498 | 110 | - | (140) | 3,468 | (10) |  |
| 7 Water Supply Plants - Plants Central | 14,063 | 14,602 | 435 | - | (103) | 14,934 | 15,492 | 580 | - | (253) | 15,819 | 885 |  |
| 8 Water Supply Plants - Plants North | 2,820 | 3,011 | 30 | - | (30) | 3,011 | 3,316 | - | - | (30) | 3,286 | 275 |  |
| 9 Sun Valley Co-Operative Water System | - | 30 | - | - | (30) | - | 30 | - | - | (30) | - | - |  |
| 10 SCADA Systems | - | - | - | - | - | - | - | - | - | - | - | - |  |
| 11 Engineering and Staff Support | 6,772 | 8,293 | 433 | - | (666) | 8,060 | 8,804 | 210 | - | (732) | 8,282 | 222 |  |
| 12 Facilities Management | 8,747 | 8,184 | 1,971 | (67) | (977) | 9,111 | 8,535 | 17,736 | - | $(15,989)$ | 10,282 | 1,171 |  |
| 13 Administration | 319 | 342 | - | - | - | 342 | 370 | - | - | - | 370 | 28 |  |
| 14 Headquarters Shared Cost - Works Water Supply System Portion | 1,153 | 1,153 | - | - | - | 1,153 | 1,203 | - | - | - | 1,203 | 50 |  |
| 15 Construction of Municipal Services | 44,361 | - | 120,104 | - | $(75,743)$ | 44,361 | - | 120,878 | - | $(76,430)$ | 44,448 | 87 |  |
| Works Department - Water Supply System Subtotal | 98,999 | 57,286 | 123,539 | (67) | $(79,257)$ | 101,501 | 60,033 | 140,784 | - | $(95,236)$ | 105,581 | 4,080 | 4.0\% |
| Works Department - Sanitary Sewerage System |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 Cleaning, Repairs and Maintenance Holes | 2,421 | 2,188 | - | - | - | 2,188 | 2,208 | - | - | - | 2,208 | 20 |  |
| 2 Sewer Connections | 2,450 | 3,567 | - | - | $(1,011)$ | 2,556 | 3,389 | - | - | $(1,014)$ | 2,375 | (181) |  |
| 3 Depot Operations | 3,975 | 3,492 | 331 | - | (29) | 3,794 | 3,612 | 416 | - | (34) | 3,994 | 200 |  |
| 4 WPCPs and Pumping Stations | 26,625 | 25,240 | 2,196 | - | (214) | 27,222 | 26,393 | 308 | - | (284) | 26,417 | (805) |  |
| 5 Duffin Creek WPCP |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (a) Management Committee | 1,007 | 2,836 | - | - | $(1,771)$ | 1,065 | 2,918 | - | - | $(1,820)$ | 1,098 | 33 |  |
| (b) Duffin Creek Plant | 5,740 | 30,313 | 2,494 | - | $(27,171)$ | 5,636 | 38,371 | 570 | - | $(32,366)$ | 6,575 | 939 |  |
| (c) Duffin Creek Tech Support | 43 | 231 | - | - | (189) | 42 | 234 | - | - | (192) | 42 | - |  |
| (d) Duffin Creek Administration | 547 | 3,019 | - | - | $(2,472)$ | 547 | 3,147 | - | - | $(2,572)$ | 575 | 28 |  |
| (e) Duffin Creek Facility | 762 | 2,000 | 550 | - | $(2,067)$ | 483 | 1,910 | 1,437 | - | $(2,681)$ | 666 | 183 |  |
| Total Duffin Creek WPCP | 8,099 | 38,399 | 3,044 | - | $(33,670)$ | 7,773 | 46,580 | 2,007 | - | $(39,631)$ | 8,956 | 1,183 |  |

## Financial Details: Summary by Program ( $\$, 000$ 's)

| Durham Budget | 2022 | 2022 Approved Budgets |  |  |  |  | 2023 Proposed Budgets |  |  |  |  | Variance |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Estimated Actuals | Operating <br> Expenses | Gross <br> Capital | Subsidy <br> Funding | Other <br> Funding | Approved Budget | Operating <br> Expenses | Gross <br> Capital | Subsidy <br> Funding | Other <br> Funding | Proposed Budget | \$ | \% |
| 6 Regional Environmental Laboratory | 760 | 3,213 | 1,057 | - | $(3,660)$ | 610 | 3,053 | 703 | - | $(3,294)$ | 462 | (148) |  |
| 7 Engineering and Staff Support | 6,096 | 8,076 | 197 | - | (962) | 7,311 | 8,440 | 326 | - | $(1,023)$ | 7,743 | 432 |  |
| 8 Facilities Management | 9,774 | 9,516 | 2,035 | (26) | (952) | 10,573 | 10,243 | 17,382 | - | $(16,115)$ | 11,510 | 937 |  |
| 9 Administration | 359 | 345 | - | - | - | 345 | 373 | - | - | - | 373 | 28 |  |
| 10 Headquarters Shared Cost - Works Sanitary Sewerage System Portion | 1,153 | 1,153 | - | - | - | 1,153 | 1,203 | - | - | - | 1,203 | 50 |  |
| 11 Construction of Municipal Services | 30,864 | - | 138,660 | - | $(107,796)$ | 30,864 | - | 126,310 | - | $(90,792)$ | 35,518 | 4,654 |  |
| Works Department - Sanitary Sewerage System Subtotal | 92,576 | 95,189 | 147,520 | (26) | $(148,294)$ | 94,389 | 105,494 | 147,452 | - | $(152,187)$ | 100,759 | 6,370 | 6.7\% |
| User Rate Requirement <br> Works Department - Water Supply System and Sanitary Sewerage System | 191,575 | 152,475 | 271,059 | (93) | $(227,551)$ | 195,890 | 165,527 | 288,236 | - | $(247,423)$ | 206,340 | 10,450 | 5.3\% |

## Financial Details: Summary of Capital (\$,000's)

Provides a summary of the current year capital budget, nine-year capital forecast and proposed financing summarized by asset type. See Appendices for specific capital projects

| Durham Budget | 2022 <br> Approved Budget | 2023 <br> Proposed Budget | 2024 | 2025 | For | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Water Supply System |  |  |  |  |  |  |  |  |
| Capital Expenditures |  |  |  |  |  |  |  |  |
| Linear Infrastructure | 45,468 | 64,491 | 134,883 | 74,439 | 84,315 | 59,235 | 233,521 | 586,393 |
| Building \& Structures | 64,013 | 67,294 | 72,540 | 224,197 | 242,814 | 243,667 | 257,035 | 1,040,253 |
| Machinery \& Equipment | 8,163 | 3,565 | 9,167 | 10,599 | 7,105 | 8,771 | 39,524 | 75,166 |
| Information Technology Infrastructure | 1,278 | 182 | 10,128 | 3,367 | 5,904 | 508 | 1,303 | 21,210 |
| Vehicles | 304 | 1,245 | 509 | 28 | 153 | 56 | 217 | 963 |
| Furniture \& Fixtures | 88 | 10 | 208 | 18 | 12 | 11 | 24 | 273 |
| Allowances \& Other Provisions | 4,225 | 3,997 | 4,832 | 4,450 | 4,536 | 6,442 | 26,241 | 46,501 |
| Capital Expenditure Subtotal | 123,539 | 140,784 | 232,267 | 317,098 | 344,839 | 318,690 | 557,865 | 1,770,759 |
| Capital Financing |  |  |  |  |  |  |  |  |
| Water Residential DC | 63,793 | 68,205 | 80,643 | 86,118 | 38,763 | 42,419 | 88,338 | 336,281 |
| Water Commercial DC | 2,420 | 2,462 | 3,632 | 4,872 | 8,815 | 3,488 | 7,825 | 28,632 |
| Water Industrial DC | 1,607 | - | 8,072 | 8,618 | 3,091 | 13,066 | 17,688 | 50,535 |
| Reserve Fund - Asset Management | 5,623 | 5,764 | 13,507 | 6,155 | 6,206 | 6,362 | 34,913 | 67,143 |
| Reserve Fund - Water Rate Stabilization | 2,548 | 311 | 9,125 | 20,002 | 70,727 | 29,025 | 16,396 | 145,275 |
| Equipment Replacement Reserve | 33 | - | - | - | - | - | - | - |
| Reserve Fund - Servicing of Employment Lands | 684 | - | 2,450 | 1,408 | - | - | - | 3,858 |
| Developer Contributions | - | - | 7,000 | 314 | - | 81,826 | - | 89,140 |
| Subsidy / Grant | 67 | - | - | - | - | - | - | - |
| Debentures - DC Funded | - | - | 23,652 | 56,019 | 156,739 | 32,570 | 25,054 | 294,034 |
| Debentures - User Rate Funded | - | 15,666 | 11,667 | 73,272 | - | 45,705 | 17,300 | 147,944 |
| User Rate | 46,764 | 48,376 | 72,519 | 60,320 | 60,498 | 64,229 | 350,351 | 607,917 |
| Capital Financing Subtotal | 123,539 | 140,784 | 232,267 | 317,098 | 344,839 | 318,690 | 557,865 | 1,770,759 |
| Total Capital Water Supply System | 123,539 | 140,784 | 232,267 | 317,098 | 344,839 | 318,690 | 557,865 | 1,770,759 |

## Financial Details: Summary of Capital (\$,000's)

Provides a summary of the current year capital budget, nine-year capital forecast and proposed financing summarized by asset type. See Appendices for specific capital projects

| Durham <br> Budget | $2022$ <br> Approved Budget | 2023 <br> Proposed Budget | 2024 | 2025 | Fore 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sanitary Sewerage System |  |  |  |  |  |  |  |  |
| Capital Expenditures |  |  |  |  |  |  |  |  |
| Linear Infrastructure | 28,499 | 46,615 | 189,710 | 52,978 | 135,408 | 82,729 | 414,584 | 875,409 |
| Building \& Structures | 20,715 | 32,325 | 77,110 | 199,213 | 46,429 | 42,965 | 502,641 | 868,358 |
| Machinery \& Equipment | 91,956 | 61,829 | 70,076 | 43,577 | 61,263 | 80,977 | 213,243 | 469,136 |
| Information Technology Infrastructure | 3,008 | 963 | 450 | 1,800 | 1,846 | 483 | 1,706 | 6,285 |
| Vehicles | 379 | 395 | 509 | 28 | 153 | 56 | 217 | 963 |
| Furniture \& Fixtures | 88 | 10 | 202 | 11 | 12 | 11 | 24 | 260 |
| Allowances and Other Provisions | 2,875 | 5,315 | 5,865 | 4,415 | 4,765 | 4,665 | 23,075 | 42,785 |
| Capital Expenditure Subtotal | 147,520 | 147,452 | 343,922 | 302,022 | 249,876 | 211,886 | 1,155,490 | 2,263,196 |
| Capital Financing |  |  |  |  |  |  |  |  |
| Sewer Residential DC | 25,703 | 36,203 | 46,450 | 44,240 | 38,173 | 48,023 | 91,901 | 268,787 |
| Sewer Commercial DC | 2,341 | 2,609 | 9,621 | 7,107 | 6,962 | 3,754 | 11,788 | 39,232 |
| Sewer Industrial DC | 192 | 1,874 | 28,554 | 6,369 | 2,982 | 8,000 | 12,174 | 58,079 |
| Reserve Fund - Environmental Lab | 750 | 475 | 575 | 125 | 400 | 325 | 915 | 2,340 |
| Reserve Fund - Sewer Rate Stabilization | 9,825 | 442 | 86,151 | 36,989 | 13,100 | 18,340 | 55,284 | 209,864 |
| Reserve Fund - Servicing of Employment Lands | 509 | - | 1,653 | - | 580 | 1,066 | - | 3,299 |
| Equipment Replacement Reserve | 14 | - | - | - | - | - | - | - |
| Reserve Fund - Asset Management | 9,275 | 11,107 | 21,352 | 11,108 | 15,238 | 10,494 | 56,539 | 114,731 |
| Recovery From York | 63,388 | 40,691 | 51,670 | 27,882 | 54,980 | 58,199 | 404,296 | 597,027 |

## Financial Details: Summary of Capital (\$,000's)

Provides a summary of the current year capital budget, nine-year capital forecast and proposed financing summarized by asset type. See Appendices for specific capital projects

|  | 2022 | 2023 |  |  | Fore |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D) Buder ent | Approved Budget | Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| Subsidy / Grant | 26 | - | - | - | - | - | - | - |
| Debentures - DC Funded | - | - | 38,893 | 52,177 | 69,297 | 12,000 | 106,140 | 278,507 |
| Debentures - User Rate Funded | - | 15,667 | 11,667 | 69,000 | - | - | 101,550 | 182,217 |
| User Rate | 35,497 | 38,384 | 47,336 | 47,025 | 48,164 | 51,685 | 314,903 | 509,113 |
| Capital Financing Subtotal | 147,520 | 147,452 | 343,922 | 302,022 | 249,876 | 211,886 | 1,155,490 | 2,263,196 |
| Total Capital Sanitary Sewerage System | 147,520 | 147,452 | 343,922 | 302,022 | 249,876 | 211,886 | 1,155,490 | 2,263,196 |
| Total Capital <br> Works Department - Water Supply System and Sanitary Sewerage System | 271,059 | 288,236 | 576,189 | 619,120 | 594,715 | 530,576 | 1,713,355 | 4,033,955 |

## Details of Budget Changes

Strategic Investments: Water Supply System
New positions not captured below - details of the 3.026 FTEs are provided in Staffing Details. 2024 incremental impact of \$210k
Expansion and modernization of Maintenance Depots to accommodate increased service demand due to population growth including land acquisition for the Sunderland Depot (\$1,333k), the Whitby/Oshawa Depot ( $\$ 12,667 \mathrm{k}$ ) and design of the expansion to the Ajax Depot ( $\$ 1,667 \mathrm{k}$ ). These projects are fully funded by debenture proceeds. Annual debt service costs of $\$ 1.5$ million will be required in 2024. A portion of the debt servicing costs may be eligible to be financed from development charges
New position (1.0 FTE), additional staffing resources (equivalent of 10 positions being allocated form Works General Tax) and overhead for locates program to ensure compliance with Ontario Underground Infrastructure Notification System Act, 2012 (\$861k in capital). 2024 incremental impact of \$603k
Increase in stand-by and overtime pay to support response to the increased frequency of severe weather events
New position ( 0.280 FTE) and other support costs to maintain the new Enterprise Maintenance Management System (EMMS) - to allow staff to manage activities, capture life-cycle cost data and 189 provide real-time maintenance information. 2024 incremental impact of $\$ 36 \mathrm{k}$ Integrated security capital project to replace the security control panels and programming at all regional facilities to meet the new facility standard
Additional financing for the energy retrofit and modernization (\$311k) of 101 Consumers Drive, Whitby to optimize space, reduce greenhouse gas emissions and provide energy efficient lighting. This additional financing is provided from the Water Rate Stabilization Reserve Fund Net increase in the user rate funded portion of capital investment not captured above - see detailed project listing in Appendix B

| Details of Budget Changes Continued |  |
| :---: | :---: |
| Base Adjustments: Water Supply System | 2023 Impact (\$ 000's) |
| Economic increases | 335 |
| Annualization of 9.001 FTEs approved in the 2022 budget | 514 |
| Various revenue adjustments to align with actuals | (274) |
| Inflationary increases including chemicals (\$1,064k) and utilities (\$241k) | 1,333 |
| Line-by-line review savings | (598) |
| Increase in Water Supply System's share of costs for the operation and maintenance of Regional Headquarters | 46 |
| Base Adjustments: Water Supply System Subtotal | 1,356 |
| Net Changes: Water Supply System Subtotal | 4,080 |

## Details of Budget Changes Continued

Strategic Investments: Sanitary Sewerage System
New positions not captured below - details of the 2.773 FTEs are provided in Staffing Details. 2024 annualized impact of $\$ 195 \mathrm{k}$
Expansion and modernization of Maintenance Depots to accommodate increased service demand due to population growth including land acquisition for the Sunderland Depot (\$1,333k), the Whitby/Oshawa Depot ( $\$ 12,667 \mathrm{k}$ ) and design of the expansion to the Ajax Depot $(\$ 1,667 \mathrm{k})$. These projects are fully funded by debenture proceeds. Annual debt service costs of $\$ 1.5$ million will be required in 2024. A portion of the debt servicing costs may be eligible to be financed from development charges
New position ( 0.310 FTE) and other support costs to maintain the new Enterprise Maintenance Management System (EMMS) - to allow staff to manage activities, capture life-cycle cost data and
provide real-time maintenance information. 2024 annualized impact of $\$ 40 \mathrm{k}$
Integrated security capital project to replace the security control panels and programming at all regional facilities to meet the new facility standard
Additional financing for the energy retrofit and modernization (\$311k) of 101 Consumers Drive, Whitby to optimize space, reduce greenhouse gas emissions and provide energy efficient lighting. This additional financing is provided by the Sewer Rate Stabilization Reserve Fund Net increase in the user rate funded portion of capital investment not captured above - see detailed project listing in Appendix D

## Details of Budget Changes Continued

| Base Adjustments: Sanitary Sewerage System | 2023 Impact <br> (\$ 000's) |
| :---: | :---: |
| Economic increases | 408 |
| Annualization of 7.519 FTEs approved in the 2022 budget | 417 |
| Various revenue adjustments to align with actuals | (110) |
| Inflationary increases including chemicals (\$1,857k) and utilities (\$760k) | 2,923 |
| Line-by-line review savings | (520) |
| Increase in Sanitary Sewerage System's share of costs for the operation and maintenance of Regional Headquarters | 46 |
| Base Adjustments: Sanitary Sewerage System Subtotal | 3,164 |
| Net Changes: Sanitary Sewerage System Subtotal | 6,370 |
| Net Changes: Works Department - Water Supply and Sanitary Sewerage System | 10,450 |

*Note that impacts are net of recoveries

## Staffing Details

Water Supply
2022 Approved Complement (Restated)$\underline{204.048}$
Proposed New PositionsSupervisor - to monitor, develop, schedule and manage the various positions pertaining tothe development of the Region's centralized Utility Locate program.1.000
Supervisor DCAM - to support increase in project delivery for depots, sewage treatmentplants and water pumping stations, and major capital projects supporting corporate priorities0.271(Note: this position is shared with Sanitary Sewerage, Works General Tax and WasteManagement)Emergency Management Coordinator - to support emergency management programs andinitiatives corporately and departmentally as a dedicated liaison with Durham EmergencyManagement (Note: this position is shared with Sanitary Sewerage, Works General
Manager and Waste Management)
Business Analyst - to provide business support for the Enterprise Maintenance Management System (Note: this position is shared with Sanitary Sewerage and Works ..... 0.280
General Tax)
Junior Project Engineer (2 positions) - to support the vertical group in the delivery of capital ..... 1.060 projects (Note: these 2 positions are shared with Sanitary Sewerage)Works Technician 2 - to provide CAD support to the vertical and linear project teams (Note:this position is shared with Sanitary Sewerage)
Works Technician 5 - to support the vertical group in the delivery of capital projects (Note: this position is shared with Sanitary Sewerage)Inspector 3 - to support the projects in the Construction Division and reduce reliance onconsulting services and temporary staff (Note: this position is shared with SanitarySewerage and Works General Tax)
Total Proposed New Positions ..... 4.306Water Supply Subtotal208.354

## Staffing Details Continued

Sanitary Sewerage2022 Approved Complement (Restated)$\underline{278.793}$
Proposed New Positions
Supervisor DCAM - to support increase in project delivery for depots, sewage treatment plants and water pumping stations, and major capital projects supporting corporate priorities ..... 0.386 (Note: this position is shared with Water Supply, Works General Tax and WasteManagement)Emergency Management Coordinator - To support emergency management programs andinitiatives corporately and departmentally as a dedicated liaison with Durham EmergencyManagement (Note: this position is shared with Water Supply, Works General Tax andWaste Management)Business Analyst - to provide business support for the Enterprise Maintenance
Management System (Note: this position is shared with Water Supply and Works General ..... 0.310
Tax)
Junior Project Engineer (2 positions) - to support the vertical group in the delivery of capital ..... 0.940
projects (Note: these 2 positions are shared with Water Supply)
Works Technician 2 - to provide CAD support to the vertical and linear project teams (Note: ..... 0.470 this position is shared with Water Supply)Works Technician 5 - To support the vertical group in the delivery of capital projects (Note:this position is shared with Water Supply)0.470Inspector 3 - to support the projects in the Construction Division and reduce reliance onconsulting services and temporary staff (Note: this position is shared with Water Supply and0.257Works General Tax)
Total Proposed New Positions ..... 3.083
Sanitary Sewerage Subtotal ..... 281.876
Total Complement: Works Department - Water Supply and Sanitary Sewerage490.230

## Looking Forward

Water supply and sanitary sewerage systems support residents, businesses, and institutions by providing public infrastructure, reliable service, and expertise so that healthy and sustainable communities thrive. To support these commitments the Region continues to modernize operations through a variety of initiatives including:

- the implementation of the Enterprise Maintenance Management System has moved maintenance operations from paper-based information processing to a comprehensive work management system, providing real time maintenance activities and information;
- the utilization of technology such as drones, sonar and submersible cameras for inspections and assessments; and innovative mapping technology;
- continued shift to digitized public facing services to enhance the experience of residents and business that access services provided by the Works Department, such as continued enhancements to the online permitting system including adding additional permits to the system;
- refinement of design standards for Regional construction projects to further protect the natural environment and incorporate compliance measures related to the Excess Soil Management Regulation;
- implementing climate mitigation and GHG reduction strategies and measures, including conversion of the Region's fleet of vehicles and equipment to lower carbon options and development of a GHG Emissions Management Strategy for Water Supply and Sanitary Sewerage facilities;
- presentation and implementation of the Durham Building Standard, providing guidelines related to energy efficiency, greenhouse gas emissions and reductions, and incorporation of amenities that support diversity and inclusion in the workplace for all projects related to the construction or renovation/retrofit of Regional facilities;
- future implementation of recommendations from Integrated Resource Recovery Studies for Water Pollution Control Plants; and
- continued advancement of the water meter retrofit initiative, installing radio frequency remote reading devices (RF) to eliminate manual meter readings. This is a significant enhancement from a customer service perspective and has been much anticipated as the follow up step to the MyDurhamWater project.


## Looking Forward Continued

The Region will continue to leverage long-term financial planning to chart a response to some of the significant challenges ahead which include leading infrastructure renewal (in alignment with the Region's Asset Management Plan and prudent asset management practices), preparing for projected Regional growth and new development which will increase demands for Regional services, and major plant expansions and infrastructure construction projects (including the continued servicing of employment lands and infrastructure constructed to service developments in Seaton in Pickering, West Whitby, Courtice and Newcastle in Clarington, and in North Oshawa).
As part of these long-term financial planning efforts the Region continues to monitor its SCADA WAN which provides wireless communication to approximately 75 water sites. The existing $3,650-3,700 \mathrm{Mhz}$ frequency band used is regulated by Innovation, Science and Economic Development Canada (ISED). ISED has planned to terminate all radio licenses in the Region's current band to reallocate for 5 G cellular communications and provisioning of frequencies to lesser served areas. Also, ISED has allocated a new frequency band for users displaced by this decision, which means that the Region must discontinue use of the current frequency band by March 31, 2025. The Works Department is expecting this frequency band reallocation decision will result in the replacement of radio units, antennas, routers, cabling, and communication panel modifications. The Region has included $\$ 3$ million in the capital budget and forecast to help address these challenges, and the WAN assessment and pre-design work has commenced.
Further, in alignment with Regional Council's commitment to confront climate change, a core element in the design and construction of Regional infrastructure is sustainability - using best practices and innovations developed through in-house research and partnerships with academia. In particular, the Region's wastewater assets have the potential to contribute to both corporate and Region-wide GHG reduction targets by transferring thermal energy (e.g., heating and cooling) between trunk sanitary sewer collection systems and adjacent buildings and facilities displacing energy consumption that might otherwise come from fossil fuel energy sources. Such projects, referred to as wastewater energy transfer (WET) projects, can reduce GHGs from the building sector which is the second largest source of community-wide emissions. Discussions are ongoing regarding the implementation of the first WET project in the Region.

The Supporting Growth and Housing in York and Durham Region Act, 2022 (Bill 23) suddenly received Royal Assent on November 28, 2022 in the provincial legislature. This legislation will impact the amount of development charges available to fund new and expanded infrastructure to service growth. Schedule 10 within Bill 23 provides the provincial direction for the wastewater servicing for the Upper York Sewage Solution which includes the Lake Ontario option of conveying wastewater south to the York Durham Sewerage System. A detailed review of the proposed servicing option will need to be conducted in consultation with the Region of York to determine infrastructure planning impacts.

| Durham Budget | Quantity | New / Replacement | 2023 Proposed Financing |  |  |  |  |  |  |  |  | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | Forecast2024-2032 | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Other | Reserve/ Reserve Funds | Industrial DCs | Institutional DCs | $\begin{aligned} & \text { Commercial } \\ & \text { DCs } \end{aligned}$ | $\begin{aligned} & \text { Residential } \\ & \text { DCs } \end{aligned}$ | Subsidy /Grant | Debenture | User Rate |  |  |  |  |
| Water Supply System |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Linear Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 R.R. 2A (Centre St.) from Athol St. to Adelaide Ave., Oshawa | - | - | - | - | - | - | - | - | - | - | 250 | 250 | 1,860 | - | 2,110 |
| 2 R.R. 14 (Liberty St.) from Baseline Rd. to <br> 2 King St., Bowmanville | - | - | - | - | - | - | - | - | - | - | 100 | 100 | 200 | 3,100 | 3,400 |
| 6 R.R. 22 (Bloor St.) from east of Harmony Rd. to Grandview St., Oshawa | - | - | - | - | - | - | - | - | - | - | 100 | 100 | 50 | 1,350 | 1,500 |
| ${ }_{7}$ R.R. 22 (Victoria St.) from Thickson Rd. to South Blair St. | - | - | - | - | - | - | - | - | - | - | 80 | 80 | 550 | - | 630 |
| $20 \begin{aligned} & \text { R.R. } 56 \text { (Farewell St.) from Harbour Rd. to } \\ & \text { Bloor St., Oshawa }\end{aligned}$ | - | - | - | - | - | - | - | - | - | - | 800 | 800 | 200 | - | 1,000 |
| Replacement of watermain on R.R. 56 <br> 21 (Farewell St.) from Canadian National Railway to Bloor St., Oshawa | - | - | - | - | - | - | - | - | - | - | 385 | 385 | 830 | - | 1,215 |
| Area Municipality Road Program - <br> 31 Replacement of deficient watermains and/or construction of required works in conjunction with the City of Oshawa Road Program | - | - | - | - | - | - | - | - | - | - | 900 | 900 | 450 | 9,900 | 11,250 |
| Area Municipality Road Program Replacement of deficient watermains and/or 32 construction of required works in conjunction with the Municipality of Clarington Road Program | - | - | - | - | - | - | - | - | - | - | 1,385 | 1,385 | - | 3,330 | 4,715 |
| Area Municipality Road Program - <br> 33 Replacement of deficient watermains and/or construction of required works in conjunction with the Township of Scugog Road Program | - | - | - | - | - | - | - | - | - | - | 200 | 200 | 525 | 1,768 | 2,493 |


| Durham Budget | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | 2023 | Proposed Fina | cing | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | $\begin{aligned} & \text { Proposed } \\ & \text { Funding } \\ & \text { Prior to } \\ & 2023 \end{aligned}$ | Forecast 2024-2032 | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Institutional DCs | $\begin{gathered} \text { Commercial } \\ \text { DCs } \end{gathered}$ | $\begin{aligned} & \text { Residential } \\ & \text { DCs } \end{aligned}$ |  |  |  |  |  |  |  |
| Allowance for unknown requirements in 36 conjunction with area municipality road programs | - | - | - | - | - | - | - | - | - | - | 200 | 200 | - | 1,800 | 2,000 |
| Watermain replacement on Park Rd. S. and 39 Cubert St., in conjunction with the MTO, Oshawa | - | - | - | - | - | - | - | - | - | - | 300 | 300 | - | - | 300 |
| Water works to rectify identified system <br> 41 deficiencies independent of road programs in various locations | - | - | - | - | - | - | - | - | - | - | 400 | 400 | - | 7,800 | 8,200 |
| 42 <br> Rehabilitation of existing watermains in various locations | - | - | - | - | - | - | - | - | - | - | 2,400 | 2,400 | 3,000 | 37,000 | 42,400 |
| Replacement of a watermain on Kingston 44 Rd. (Hwy No. 2) from Steeple Hill to Merritton Rd., Pickering | - | - | - | - | - | - | - | - | - | - | 2,200 | 2,200 | 2,090 | - | 4,290 |
| Replacement of a watermain on Kingston 45 Rd. (Hwy No. 2) from Dixie Rd. to Bainbridge Dr., Pickering | - | - | - | - | - | - | - | - | - | - | 2,500 | 2,500 | 1,200 | - | 3,700 |
| 53 <br> Achilles Rd. from Salem Rd. to 100 m west of Salem Rd., Ajax | - | - | - | - | - | - | - | - | - | - | 80 | 80 | 210 | - | 290 |
| Replacement of a watermain on Pickering 54 Beach Rd. from Foord Rd. to Hewitt Cres., Ajax | - | - | - | - | - | - | - | - | - | - | 360 | 360 | 840 | - | 1,200 |
| Replacement of watermain and valves on 58 Harwood Ave. from Clements Rd. to Falby Crt., Ajax | - | - | - | - | - | - | - | - | - | - | 250 | 250 | - | 750 | 1,000 |
| 68 <br> Erosion protection Crystal Beach Boulevard watermain, Whitby | - | - | - | - | - | - | - | - | - | - | 500 | 500 | 544 | 5,000 | 6,044 |
| 69 <br> Replacement of watermain on High St. from Mary St. to Walnut St., Whitby | - | - | - | - | - | - | - | - | - | - | 260 | 260 | 465 | - | 725 |



| Durham | Quantity | New / <br> Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | 2023 Proposed Financing |  |  | Subsidy /Grant | Debenture | User Rate | $\begin{aligned} & 2023 \\ & \text { Proposed } \\ & \text { Budget } \end{aligned}$ | $\begin{aligned} & \text { Proposed } \\ & \text { Funding } \\ & \text { Prior to } \\ & 2023 \end{aligned}$ | $\begin{array}{r} \text { Forecast } \\ 2024-2032 \end{array}$ | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Institutional DCs | $\begin{aligned} & \text { Commercial } \\ & \text { DCs } \end{aligned}$ | $\begin{aligned} & \text { Residential } \\ & \text { DCs } \end{aligned}$ |  |  |  |  |  |  |  |
| 109 <br> Replacement of watermain on Jane St. from Ida St. to 220 m north of Ida St., Sunderland | - | - | - | 775 | - | - | - | - | - | - | - | 775 | 200 | - | 975 |
| 110 Replacement of watermain on Maple St. <br> from River St. to dead-end, Sunderland | - | - | - | 146 | - | - | - | - | - | - | - | 146 | 135 | - | 281 |
| 113 <br> Replacement of watermain on Centre St from Mara Rd. to James St., Beaverton | - | - | - | 50 | - | - | - | - | - | - | - | 50 | 100 | 650 | 800 |
| 119 <br> Allowance for the evaluation of feedermains/watermains at creek crossings | - | - | - | - | - | - | - | - | - | - | 75 | 75 | - | 300 | 375 |
| Zone 2 feedermain on William Jackson Dr. \& 123 Taunton Rd. from Earl Grey Ave. to Ravenscroft Rd., Pickering/ Ajax | - | - | - | - | - | - | 174 | 6,920 | - | - | 806 | 7,900 | 900 | - | 8,800 |
| Zone 2 feedermain on Church St. from south 124 side of the hydro right of way to Taunton Rd., Ajax | - | - | - | - | - | - | 92 | 3,679 | - | - | 429 | 4,200 | - | - | 4,200 |
| Zone 3 feedermain on Conlin Rd. from 131 Anderson St. to Thickson Rd., Whitby (Region's share only) | - | - | - | - | - | - | 22 | 876 | - | - | 102 | 1,000 | 3,135 | - | 4,135 |
| Zone 3 feedermain on Mid-Block Arterial 132 from Lynde Creek to Ashburn Rd., Whitby (West Loop) (Region's share only) | - | - | - | - | - | - | 123 | 4,906 | - | - | 571 | 5,600 | 5,400 | - | 11,000 |
| 140 <br> Watermain on Britannia Ave. from Thornton Rd. to Windfields Farm Dr., Oshawa | - | - | - | - | - | - | 17 | 657 | - | - | 77 | 751 | 340 | 1,250 | 2,341 |
| Watermain on Thornton Rd. from 100 m <br> 143 North of Conlin Rd. within the Northwood Employment Area, Oshawa | - | - | - | - | - | - | 3 | 131 | - | - | 16 | 150 | 2,122 | - | 2,272 |
| Zone 1 feedermain on Lambs Rd. from Hwy 154 No. 2 (King St.) to Zone 1 Liberty Street Reservoir, Bowmanville | - | - | - | - | - | - | 394 | 15,680 | - | - | 1,826 | 17,900 | 16,000 | 27,000 | 60,900 |


| Appendix A: 2023 Water Supply System Capital Projects ( $\$, 000$ 's) <br> Provides financing details for capital projects proposed in 2023. See Appendix B for the comprehensive 2023 capital budget and 2024-2032 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (\%) Durham | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | $\begin{gathered} 2023 \\ \text { Institutional } \\ \text { DCs } \end{gathered}$ | Proposed Fina <br> Commercial DCs | cing <br> Residential DCs | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed <br> Funding <br> Prior to <br> 2023 | $\begin{aligned} & \text { Forecast } \\ & \text { 2024-2032 } \end{aligned}$ | Total Project to 2032 |
| Zone 2 feedermain on Liberty St. from 158 Concession Rd. 3 and Concession Rd. 4 to Zone 2 Reservoir, Bowmanville | - | - | - | - | - | - | 26 | 1,051 | - | - | 122 | 1,199 | - | 8,300 | 9,499 |
| Zone 1 feedermain on Highway No. 2 (King 160 Ave.) from Rudell Rd. to 200 m west of North St., Newcastle | - | - | - | - | - | - | 3 | 105 | - | - | 12 | 120 | 200 | 2,120 | 2,440 |
| 164 Water Meter installation and replacement | - | - | - | - | - | - | - | - | - | - | 3,000 | 3,000 | 2,000 | 47,414 | 52,414 |
| 165 Depots - Replacement of polybutylene service connections in various locations | - | - | - | - | - | - | - | - | - | - | 50 | 50 | - | 50 | 100 |
| 166 Replacement of lead service connection in various locations | - | - | - | - | - | - | - | - | - | - | 450 | 450 | - | 29,000 | 29,450 |
| 167 Replacement of valves | - | - | - | - | - | - | - | - | - | - | 400 | 400 | - | 6,400 | 6,800 |
| 168 <br> Valve Chamber Condition Assessment and inspections | - | - | - | - | - | - | - | - | - | - | 450 | 450 | - | 1,350 | 1,800 |
| 169 Replacement of hydrants | - | - | - | - | - | - | - | - | - | - | 200 | 200 | - | 3,650 | 3,850 |
| Linear Infrastucture Subtotal |  |  | - | 5,181 | - | - | 854 | 34,005 | - | - | 24,451 | 64,491 | 47,582 | 200,072 | 312,145 |
| Building and Structures |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 172 Expansion of the Whitby Water Supply Plant from 109 MLD to 218 MLD, Whitby | - |  | - | - | - | - | 814 | 8,101 | - | - | 4,585 | 13,500 | 27,850 | 234,300 | 275,650 |
| 175 Garrard Rd. Zone 3 Water Pumping Station - | - |  | - | - | - | - | 38 | 1,524 | - | - | 177 | 1,739 | 410 | - | 2,149 |


| Durham Budget | Quantity | New / Replacement | 2023 Proposed Financing |  |  |  |  |  |  |  |  | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | $\begin{aligned} & \text { Forecast } \\ & 2024-2032 \end{aligned}$ | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Other | Reserve/ Reserve Funds | Industrial DCs | Institutional DCs | $\begin{aligned} & \text { Commercial } \\ & \text { DCs } \end{aligned}$ | Residential DCs | Subsidy /Grant | Debenture | User Rate |  |  |  |  |
| Proposed Whitby Zone 4 \& 5 Pumping 179 Station at Duffs Rd. Reservoir and feedermain, Whitby | - |  | - | - | - | - | 51 | 2,015 | - | - | 235 | 2,301 | - | 12,000 | 14,301 |
| Proposed Zone 5 Pumping Station at 187 Harmony Rd. Reservoir and feedermain, Oshawa | - |  | - | - | - | - | 22 | 876 | - | - | 102 | 1,000 | 1,000 | 10,200 | 12,200 |
| Proposed Liberty Street Zone 1 Reservoir 19011 ML and demolition of the existing elevated tank | - |  | - | - | - | - | 286 | 11,472 | - | - | 5,442 | 17,200 | 22,100 | 1,500 | 40,800 |
| 191 Proposed Zone 2 Pumping Station at the Zone 1 Reservoir - Bowmanville | - |  | - | - | - | - | 130 | 5,188 | - | - | 982 | 6,300 | 8,800 | - | 15,100 |
| 193 <br> Newcastle Water Supply Plant - demolition of plant No. 1 | - |  | - | - | - | - | 42 | 417 | - | - | 541 | 1,000 | 300 | 3,400 | 4,700 |
| 198 Scugog Water Supply System - Alternative Water Supply Source | - |  | - | - | - | - | 127 | 1,267 | - | - | 1,606 | 3,000 | 4,530 | 27,900 | 35,430 |
| 200 Blackstock Water Supply System - upgrades to Municipal Well No. 7 | - |  | - | - | - | - | - | - | - | - | 350 | 350 | 2,200 | - | 2,550 |
| Greenbank Water Supply System - <br> 201 Replacement of Municipal Well 1 and 6 with rehabilitation work at the pumphouse | - |  | - | - | - | - | - | - | - | - | 1,000 | 1,000 | - | 4,000 | 5,000 |
| 202 Uxbridge Water Supply System - New Well and Pumphouse | - |  | - | - | - | - | 32 | 319 | - | - | 150 | 501 | 1,500 | 4,220 | 6,221 |
| 203 Uxbridge Water Supply System - Municipal Well No. 7 Replacement | - |  | - | - | - | - | - | - | - | - | 500 | 500 | - | 6,000 | 6,500 |
| 211 <br> Beaverton - additional Water Storage from 2 <br> ML to 4.8 ML | - |  | - | - | - | - | 5 | 212 | - | - | 283 | 500 | - | 9,000 | 9,500 |


| Appendix A: 2023 Water Supply System Capital Projects (\$,000's)Provides financing details for capital projects proposed in 2023. See Appendix B for the comprehensive 2023 capital budget and 2024-2032 for |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (2) Durham | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | $\begin{aligned} & 2023 \\ & \text { Institutional } \\ & \text { DCs } \end{aligned}$ | Proposed Fin <br> Commercial DCs | cing <br> Residential DCs | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | $\begin{aligned} & \text { Forecast } \\ & \text { 2024-2032 } \end{aligned}$ | Total Project to 2032 |
| 213 <br> Reservoir inspections, condition assessment and minor rehabilitation works | - |  | - | 300 | - | - | - | - | - | - | - | 300 | - | 2,400 | 2,700 |
| 214 Wellhead protection at Regional well sites | - |  | - | - | - | - | - | - | - | - | 800 | 800 | 800 | 7,200 | 8,800 |
| 217 Replace Fire Panel and Smoke Detector Ajax WSP | - | Replacement | - | - | - | - | - | - | - | - | 141 | 141 | - | - | 141 |
| 220 Access Ladder Repair/Replacement Project Various Locations | 2 | Replacement | - | - | - | - | - | - | - | - | 15 | 15 | - | - | 15 |
| 223 Replacement of Fire System Oshawa/Whitby Depot | - | Replacement | - | - | - | - | - | - | - | - | 67 | 67 | - | - | 67 |
| 227 Widening of Existing Canopy Entrance - <br> Sunderland Depot | - | Replacement | - | - | - | - | - | - | - | - | 8 | 8 | - | - | 8 |
| 229 Roof Replacement on Vehicle Storage Bays Orono Depot | - | Replacement | - | - | - | - | - | - | - | - | 27 | 27 | - | - | 27 |
| 231 Metering Chamber Drainage - Oshawa WSP | - | Replacement | - | - | - | - | - | - | - | - | 595 | 595 | - | - | 595 |
| 236 RTU's 1234 Replacement - Oshawa WSP | 1 | Replacement | - | - | - | - | - | - | - | - | 457 | 457 | - | - | 457 |
| 239 Renovation \& Optimization - 101 Consumers | - | Replacement | - | 310 | - | - | - | - | - | - | - | 310 | - | - | 310 |
| 240 Depot Rationalization - Ajax Depot Expansion | - | New | - | - | - | - | - | - | - | 1,667 | - | 1,667 | - | - | 1,667 |



| Durham Budget | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | 2023 | Proposed Fina | cing | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | $\begin{aligned} & \text { Forecast } \\ & 2024-2032 \end{aligned}$ | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{aligned} & \text { Institutional } \\ & \text { DCs } \end{aligned}$ | $\begin{gathered} \text { Commercial } \\ \text { DCs } \end{gathered}$ | $\begin{aligned} & \text { Residential } \\ & \text { DCs } \end{aligned}$ |  |  |  |  |  |  |  |
| 282 Replace Uninterrupted Power Supply (UPS) Batteries - Ajax WSP | 1 | Replacement | - | - | - | - | - | - | - | - | 50 | 50 | - | - | 50 |
| 283 Sulphuric Acid Pump Replacement - Ajax | 1 | Replacement | - | - | - | - | - | - | - | - | 240 | 240 | - | - | 240 |
| 284 Sump Pump Systems - Ajax WSP | - | Replacement | - | - | - | - | - | - | - | - | 122 | 122 | - | - | 122 |
| 287 Integrated Control Technology - Security <br> Project - Various Locations | - | New | - | - | - | - | - | - | - | - | 306 | 306 | - | - | 306 |
| 297 Pump / Motor / Mixer Repair / Replacement - <br> Plants East | - | Replacement | - | - | - | - | - | - | - | - | 80 | 80 | - | - | 80 |
| 298 Regulatory Instrumentation Replacement and Maintenance - Various Locations |  | Replacement | - | - | - | - | - | - | - | - | 30 | 30 | - | - | 30 |
| 302 Bar Pullout Tester - Construction | 1 | New | - | - | - | - | - | - | - | - | 4 | 4 | - | - | 4 |
| 303 Bench Oven - Construction | 1 | New | - | - | - | - | - | - | - | - | 5 | 5 | - | - | 5 |
| 304 Concrete End Grinder - Construction | 1 | New | - | - | - | - | - | - | - | - | 9 | 9 | - | - | 9 |
| 307 Gyratory Compactor/Molds/Equipment Construction | 1 | New | - | - | - | - | - | - | - | - | 23 | 23 | - | - | 23 |
| 309 Nuclear Densometer - Construction | 1 | Replacement | - | - | - | - | - | - | - | - | 3 | 3 | - | - | 3 |


| (2) Durham | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | $\begin{gathered} \quad 2028 \\ \begin{array}{c} \text { Institutional } \\ \text { DCs } \end{array} \\ \hline \end{gathered}$ | Proposed Fin <br> Commercial DCs | ing <br> Residential DCs | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | $\begin{gathered} \hline \text { Proposed } \\ \text { Funding } \\ \text { Prior to } \\ 2023 \\ \hline \end{gathered}$ | Forecast 2024-2032 | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 313 Chlorine Analyzers - Plants Central | 3 | Replacement | - | - | - | - | - | - | - | - | 30 | 30 | - | - | 30 |
| 314 UPS Battery Replacements and Testing Plants Central | 40 | Replacement | - | - | - | - | - | - | - | - | 40 | 40 | - | - | 40 |
| 317 WSP Post Chlorinator Replacement Oshawa WSP | 1 | Replacement | - | - | - | - | - | - | - | - | 25 | 25 | - | - | 25 |
| 318 Replace Weigh Scale - Various Locations | 4 | Replacement | - | - | - | - | - | - | - | - | 35 | 35 | - | - | 35 |
| 319 Tank Liners - Whitby WSP | 2 | Replacement | - | - | - | - | - | - | - | - | 30 | 30 | - | - | 30 |
| 320 Flow Meter Replacements - WSP Pumping Stations | 4 | Replacement | - | - | - | - | - | - | - | - | 80 | 80 | - | - | 80 |
| 321 <br> Install Isolation Valve - Taunton Rd. <br> Pumping Station | 1 | Replacement | - | - | - | - | - | - | - | - | 50 | 50 | - | - | 50 |
| 323 Integrated Control Technology - Security <br> Project - Various Locations | 3 | New | - | - | - | - | - | - | - | - | 3 | 3 | - | - | 3 |
| Machinery \& Equipment Subtotal |  |  | - | - | - | - | - | - | - | - | 3,565 | 3,565 | 20,096 | 10,100 | 33,761 |
| Information Technology Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 329 Standard Laptop | 2 | New | - | - | - | - | - | - | - | - | 1 | 1 | - | - | 1 |
| 332 GIS Hardware (Monitors, Backup Devices and Other) - Data System Management | 1 | Replacement | - | - | - | - | - | - | - | - | 5 | 5 | - | - | 5 |


| Durham Budget | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | 2023 Proposed Financing |  |  | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | $\begin{array}{r} \text { Forecast } \\ 2024-2032 \end{array}$ | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{aligned} & \text { Institutional } \\ & \text { DCs } \end{aligned}$ | $\begin{gathered} \text { Commercial } \end{gathered}$ | $\begin{gathered} \text { Residential } \\ \text { DCs } \end{gathered}$ |  |  |  |  |  |  |  |
| 333 Power Laptop | 13 | New | - | - | - | - | - | - | - | - | 16 | 16 | - | - | 16 |
| 334 Computers \& Monitors Refresh - Financial Services | - | Replacement | - | - | - | - | - | - | - | - | 149 | 149 | - | - | 149 |
| 338 Power Laptop (with Monitor) | 3 | New | - | - | - | - | - | - | - | - | 5 | 5 | - | - | 5 |
| 340 Tablet | 1 | New | - | - | - | - | - | - | - | - | 2 | 2 | - | - | 2 |
| 340 Tablet | 1 | Replacement | - | - | - | - | - | - | - | - | 4 | 4 | - | - | 4 |
| Information Technology Infrastructure Subtotal |  |  | - | - | - | - | - | - | - | - | 182 | 182 | - | - | 182 |
| Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 349 Hybrid PHEV SUV - Oshawa/Whitby Depot | 10 | New | - | - | - | - | - | - | - | - | 850 | 850 | - | - | 850 |
| 356 Vactor 2100-Oshawa/Whitby Depot | 1 | New | - | - | - | - | - | - | - | - | 395 | 395 | - | - | 395 |
| Vehicles Subtotal |  |  | - | - | - | - | - | - | - | - | 1,245 | 1,245 | - | - | 1,245 |
| Furniture \& Fixtures |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 364 A/V Equipment and Technology Upgrades Various Locations | 1 | New | - | - | - | - | - | - | - | - | 10 | 10 | - | - | 10 |
| Furniture \& Fixtures Subtotal |  |  | - | - | - | - | - | - | - | - | 10 | 10 | - | . | 10 |


| Appendix A: 2023 Water Supply System Capital Projects (\$,000's) <br> Provides financing details for capital projects proposed in 2023. See Appendix B for the comprehensive 2023 capital budget and 2024-2032 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (D) Durham | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | $\begin{gathered} \quad 202 \text { Institutional } \\ \text { DCs } \\ \hline \end{gathered}$ | Proposed Fin <br> Commercial DCs | cing <br> Residential DCs | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | $\begin{aligned} & \text { Forecast } \\ & 2024-2032 \end{aligned}$ | Total Project to 2032 |
| Allowances \& Other Provisions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 365 <br> Regional Water Supply Master Planning Study for the Regional Official Plan Review | - |  |  | - | - | - | 6 | 219 | - | - | 25 | 250 | 900 | 800 | 1,950 |
| 367 <br> Asset Condition Assessments - Reports for Vertical Assets | - |  | - | 100 | - | - | - | - | - | - | - | 100 | 1,063 | 2,086 | 3,249 |
| 368 <br> Asset Condition Assessment/ investigation for transmission pipes | - |  | - | 182 | - | - | - | - | - | - | - | 182 | 1,037 | 1,780 | 2,999 |
| 370 Allowance for acquisition of easements | - |  | - | - | - | - | - | - | - | - | 100 | 100 | 150 | 900 | 1,150 |
| 371 Allowance for engineering studies | - |  | - | - | - | - | - | - | - | - | 150 | 150 | - | 1,950 | 2,100 |
| 375 Preliminary engineering | - |  | - | - | - | - | - | - | - | - | 100 | 100 | - | 900 | 1,000 |
| 376 <br> Allowance for sundry extensions as per Council policy - Various | - |  | - | - | - | - | - | - | - | - | 15 | 15 | - | 135 | 150 |
| 377 Allowance for unknown requirements | - |  | - | - | - | - | - | - | - | - | 100 | 100 | - | 900 | 1,000 |
| 378 <br> Allowance for land severance review and drawing requirements | - |  | - | - | - | - | - | - | - | - | 100 | 100 | - | 900 | 1,000 |
| Allowance for Regional share for works in 379 conjunction with residential subdivision development | - |  | - | - | - | - | 44 | 1,752 | - | - | 204 | 2,000 | - | 18,000 | 20,000 |


| Durham Budget | Quantity | $\begin{gathered} \text { New / } \\ \text { Replacement } \end{gathered}$ | 2023 Proposed Financing |  |  |  |  |  |  |  |  | $\begin{gathered} 2023 \\ \text { Proposed } \\ \text { Budget } \end{gathered}$ | $\begin{gathered} \text { Proposed } \\ \text { Funding } \\ \text { Prio to } \\ 2023 \\ \hline \end{gathered}$ | Forecast | $\begin{gathered} \text { Total } \\ \text { Project to } \\ 2032 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Other | Reserve/ Reserve Funds | Industrial DCs | Institutional DCs | $\begin{gathered} \text { Commercial } \\ \text { DCs } \end{gathered}$ | Residential DCs | Subsidy /Grant | Debenture | User Rate |  |  |  |  |
| 380 Allowance for Regional share for works in conjunction with non-residential development | - |  | - | - | - | - | 11 | 438 | - | - | 51 | 500 | - | 4,500 | 5,000 |
| 381 Well interference works | - |  | - | - | - | - | - | 400 | - | - | - | 400 | - | 7,200 | 7,600 |
| Allowances \& Other Provisions Subtotal |  |  | - | 282 | - | - | 61 | 2,809 | - | - | 845 | 3,997 | 3,150 | 40,051 | 47,198 |
| Water Supply System Subtotal |  |  | - | 6,075 | - | - | 2,462 | 68,205 | - | 15,666 | 48,376 | 140,784 | 140,318 | 572,343 | 853,445 |
| Total Water Supply System |  |  |  | 6,075 |  |  | 2,462 | 68,205 |  | 15,666 | 48,376 | 140,784 | 140,318 | 572,343 | 853,445 |

*Rows and columns may not add due to rounding
${ }^{*}$ Appendix A includes Reserve financing as follows:

* Appendix A includes financing of the following development charge shortfalls as follows:

DC Shortfall
$\qquad$ Residential DC Shortiall
Commercial DC Shortfall Institurcianal DC SSortfall
Insornall

Ind | Industrial DC Shortfall |
| :--- |
| Total DC Shortall |
| 11,327 |
| 1,457 |

Shorffall Financing Source
ation Reserve Fund - Water

| Debenture - DC Funded |
| :---: |
| User Rate |
|  |
| 11,45 |


| User Rate |
| :--- |
| Total Funding |
| $\xlongequal{11,457}$ |
| 11,457 |

Asset Management Resesererve Fund
Asset Management Reserve Funde - Water 5,764
Pre-Servicing of Employment Lands Reserve Fund - Water St-

| Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Water Supply System |  |  |  |  |  |  |  |  |
| Linear Infrastructure |  |  |  |  |  |  |  |  |
| 1 R.R. 2A (Centre St) from Athol St. to Adelaide Ave., Oshawa | Pre-Construction |  | - | - | - |  | - | - |
|  | Construction | 250 | - | - | - | - | - | - |
|  | Total | 250 | - | - | - | - | - | - |
| R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville | Pre-Construction | 100 | - | - | - | - | - | - |
|  | Construction | - | - | - | 3,100 | - | - | 3,100 |
|  | Total | 100 | - | - | 3,100 | - | - | 3,100 |
| R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  | Construction | - | - | 1,100 | - | - | - | 1,100 |
|  | Total | - | - | 1,100 | - | - | - | 1,100 |
| R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington | Pre-Construction | - | - | - | - | - | - | - |
|  | Construction | - | - | 760 | - | - | - | 760 |
|  | Total | - | - | 760 | - | - | - | 760 |
| R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax | Pre-Construction | - | - | - | - | - | - | - |
|  | Construction | - | - | - | - | 1,900 | - | 1,900 |
|  | Total | - | - | - | - | 1,900 | - | 1,900 |
| R.R. 22 (Bloor St.) from east of Harmony Rd. to Grandview St., Oshawa | Pre-Construction | 100 | - | - | - | - | - | - |
|  | Construction | - | - | 1,350 | - | - | - | 1,350 |
|  | Total | 100 | - | 1,350 | - | - | - | 1,350 |
| R.R. 22 (Victoria St.) from Thickson Rd. to South Blair St., Whitby | Pre-Construction | - | - | - | - | - | - | - |
|  | Construction | 80 | - | - | - | - | - | - |
|  | Total | 80 | - | - | - | - | - | - |
| $8 \begin{aligned} & \text { R.R. } 26 \text { (Thickson Rd.) from Consumers Dr. to Dundas } \\ & \text { St., Whitby }\end{aligned}$ | Pre-Construction | - | - | - | 500 | - | - | 500 |
|  | Construction | - | - | - | - | - | 2,900 | 2,900 |
|  | Total | - | - | - | 500 | - | 2,900 | 3,400 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 <br> R.R. 26 (Thickson Rd.)/Wentworth St. Culvert rehabilitation, Whitby |  | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 850 | - | - | - | - | 850 |
|  |  | Total | - | 850 | - | - | - | - | 850 |
| 10 | R.R. 28 (Rossland Rd.) from Park Rd. to Simcoe St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 1,100 | - | - | 1,100 |
|  |  | Total | - | - | - | 1,100 | - | - | 1,100 |
| 11 | R.R. 28 (Rossland Rd.) from Ritson Rd. to Harmony Rd., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 2,380 | - | - | - | 2,380 |
|  |  | Total | - | - | 2,380 | - | - | - | 2,380 |
| 12 | R.R. 29 (Liverpool Rd.) from Highway 401 to Kingston Rd. (Highway No. 2), Pickering | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 250 | 250 |
|  |  | Total | - | - | - | - | - | 250 | 250 |
| 13 | R.R. 31 (Westney Rd.) from Finley Ave. to Harwood Ave., Ajax | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 1,230 | 1,230 |
|  |  | Total | - | - | - | - | - | 1,230 | 1,230 |
| 14 | R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby | Pre-Construction | - | 270 | - | - | - | - | 270 |
|  |  | Construction | - | - | - | 150 | - | 500 | 650 |
|  |  | Total | - | 270 | - | 150 | - | 500 | 920 |
| 15 | R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd., Pickering | Pre-Construction | - | - | - | - | 500 | - | 500 |
|  |  | Construction | - | - | - | - | - | 6,000 | 6,000 |
|  |  | Total | - | - | - | - | 500 | 6,000 | 6,500 |
| 16 | R.R. 38 (Whites Rd.) from Kingston Rd. Highway 2 to Finch Ave., Pickering | Pre-Construction | - | - | - | - | - | 500 | 500 |
|  |  | Construction | - | - | - | - | - | 2,300 | 2,300 |
|  |  | Total | - | - | - | - | - | 2,800 | 2,800 |
| 17 | R.R. 52 (Thornton Rd.) from King St. to Stellar Dr., Whitby/Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 1,330 | - | - | - | 1,330 |
|  |  | Total | - | - | 1,330 | - | - | - | 1,330 |


|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 18 | R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | 1,430 | - | 1,430 |
|  |  | Total | - | - | - | - | 1,430 | - | 1,430 |
| 19 | R.R. 53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 3,800 | 3,800 |
|  |  | Total | - | - | - | - | - | 3,800 | 3,800 |
| 20 | R.R. 56 (Farewell St.) from Harbour Rd. to Bloor St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 800 | - | - | - | - | - | - |
|  |  | Total | 800 | - | - | - | - | - | - |
| 21 | Replacement of watermain on R.R. 56 (Farewell St.) from Canadian National Railway to Bloor St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 385 | - | - | - | - | - | - |
|  |  | Total | 385 | - | - | - | - | - | - |
| 22 | R.R. 57 (Bowmanville Ave.) from Baseline Rd. to Highway No. 2, Bowmanville | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 500 | - | - | - | - | 500 |
|  |  | Total | - | 500 | - | - | - | - | 500 |
| 23 | R.R. 58 (Manning Rd.)/Adelaide Ave. interconnection from Garrard Rd. to Thornton Rd., Whitby and Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 980 | - | - | 980 |
|  |  | Total | - | - | - | 980 | - | - | 980 |
| 24 | R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 2,100 | 2,100 |
|  |  | Total | - | - | - | - | - | 2,100 | 2,100 |
| 25 | R.R. 59 (Gibb St)./Olive Ave. Extension from Drew St. to Ritson Rd., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 430 | 430 |
|  |  | Total | - | - | - | - | - | 430 | 430 |
| 26 | R.R. 60 (Wentworth St.) from Simcoe St. to Farewell St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 665 | - | - | - | - | 665 |
|  |  | Total | - | 665 | - | - | - | - | 665 |


|  | (D) Durhat | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
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| 27 | Allowance for watermains in conjunction with the Regional Road Program | Pre-Construction | - | - | - | - | - | 6,000 | 6,000 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | - | - | - | - | 6,000 | 6,000 |
| 28 | Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the City of Pickering Road Program | Pre-Construction | - | 275 | 275 | 275 | 275 | 1,375 | 2,475 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | 275 | 275 | 275 | 275 | 1,375 | 2,475 |
| 29 | Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the Town of Ajax Road Program | Pre-Construction | - | 2,100 | 200 | 200 | 200 | 1,000 | 3,700 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | 2,100 | 200 | 200 | 200 | 1,000 | 3,700 |
| 30 | Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the Town of Whitby Road Program | Pre-Construction | - | 1,350 | 620 | 620 | 620 | 3,100 | 6,310 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | 1,350 | 620 | 620 | 620 | 3,100 | 6,310 |
| 31 | Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the City of Oshawa Road Program | Pre-Construction | 900 | 1,100 | 1,100 | 1,100 | 1,100 | 5,500 | 9,900 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | 900 | 1,100 | 1,100 | 1,100 | 1,100 | 5,500 | 9,900 |
| 32 | Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the Municipality of Clarington Road Program | Pre-Construction | 1,385 | 370 | 370 | 370 | 370 | 1,850 | 3,330 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | 1,385 | 370 | 370 | 370 | 370 | 1,850 | 3,330 |
| 33 | Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the Township of Scugog Road Program | Pre-Construction | 200 | 229 | 629 | 130 | 130 | 650 | 1,768 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | 200 | 229 | 629 | 130 | 130 | 650 | 1,768 |


|  | Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the Township of Uxbridge Road Program | Pre-Construction | - | 270 | 270 | 270 | 270 | 1,350 | 2,430 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | 270 | 270 | 270 | 270 | 1,350 | 2,430 |
| 35 | Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the Township of Brock Road Program | Pre-Construction | - | 250 | 250 | 250 | 250 | 1,250 | 2,250 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | 250 | 250 | 250 | 250 | 1,250 | 2,250 |
| 36 | Allowance for unknown requirements in conjunction with area municipality road programs | Pre-Construction | 200 | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | 200 | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
| 37 | Watermain replacement at Highway 401 and Wilson Rd., in conjunction with the MTO, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 3,000 | - | - | - | - | 3,000 |
|  |  | Total | - | 3,000 | - | - | - | - | 3,000 |
| 38 | Watermain replacement in conjunction with the Metrolinx Toronto East Rail Corridor expansion to Bowmanville |  | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 3,340 | - | - | 3,340 |
|  |  | Total | - | - | - | 3,340 | - | - | 3,340 |
| 39 | Watermain replacement on Park Rd. S. and Cubert St., in conjunction with the MTO, Oshawa | Pre-Construction | 300 | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | 300 | - | - | - | - | - | - |
| 40 | Allowance for watermains in conjunction with the MTO \& Go Transit projects | Pre-Construction | - | - | 200 | - | 250 | 1,950 | 2,400 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | - | 200 | - | 250 | 1,950 | 2,400 |
| $41$ | Water works to rectify identified system deficiencies independent of road programs in various locations | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 400 | 800 | 800 | 800 | 900 | 4,500 | 7,800 |
|  |  | Total | 400 | 800 | 800 | 800 | 900 | 4,500 | 7,800 |


|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 42 | Rehabilitation of existing watermains in various locations. | Pre-Construction | - | - | - | - |  |  |  |
|  |  | Construction | 2,400 | 3,000 | 3,000 | 3,500 | 4,000 | 23,500 | 37,000 |
|  |  | Total | 2,400 | 3,000 | 3,000 | 3,500 | 4,000 | 23,500 | 37,000 |
| 43 | Replacement of the watermain on Kingston Rd. (Hwy No. 2) from Altona Rd. to Steeple Hill and Rougemount Dr. from Hwy No. 2 to 100 m south, Pickering | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | 3,000 | - | 3,000 |
|  |  | Total | - | - | - | - | 3,000 | - | 3,000 |
| 44 | Replacement of a watermain on Kingston Rd. (Hwy No. 2) from Steeple Hill to Merritton Rd., Pickering | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 2,200 | - | - | - | - | - | - |
|  |  | Total | 2,200 | - | - | - | - | - | - |
| 45 | Replacement of a watermain on Kingston Rd. (Hwy No. 2) from Dixie Rd. to Bainbridge Dr., Pickering | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 2,500 | - | - | - | - | - | - |
|  |  | Total | 2,500 | - | - | - | - | - | - |
| 46 | Replacement of watermain on Sandy Beach Rd. from 300 m north of Alyssum St. to 210 m south of Alyssum St., Pickering | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 300 | - | - | - | - | 300 |
|  |  | Total | - | 300 | - | - | - | - | 300 |
| 47 | Replacement of a watermain on Bayly St. from Westshore Blvd. to Mattins Rd., Pickering | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 2,800 | - | - | 2,800 |
|  |  | Total | - | - | - | 2,800 | - | - | 2,800 |
| 48 | Watermain and valve impovements at Brock Rd. and Montgomery Park Rd., Pickering | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 300 | - | - | - | - | 300 |
|  |  | Total | - | 300 | - | - | - | - | 300 |
| 49 | Replacement of a watermain on Brock Rd. from Feldspar Crt. to Clements Rd., Pickering | Pre-Construction | - | - | - | - | - | 100 | 100 |
|  |  | Construction | - | - | - | - | - | 480 | 480 |
|  |  | Total | - | - | - | - | - | 580 | 580 |
| 50 | Replacement of a watermain on Notion Rd. from Kingston Rd. to approx. 230 m South, Pickering | Pre-Construction | - | - | - | - | - | 100 | 100 |
|  |  | Construction | - | - | - | - | - | 250 | 250 |
|  |  | Total | - | - | - | - | - | 350 | 350 |



|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 60 | Replacement of watermain on Dundas St. (Hwy No. 2) from Lakeridge Rd. to McQuay Blvd., Whitby | Pre-Construction | - | - |  | - | - | - | - |
|  |  | Construction | - | 400 | - | - | - | - | 400 |
|  |  | Total | - | 400 | - | - | - | - | 400 |
|  | Replacement of watermain on Consumers Dr. from 140 m west of Thickson Rd. S to 110 m east of Sunray St., Whitby | Pre-Construction | - | - | - | - | 200 | - | 200 |
|  |  | Construction | - | - | - | - | - | 590 | 590 |
|  |  | Total | - | - | - | - | 200 | 590 | 790 |
| 62 | Replacement of watermain on Palmerston Ave. from Centre St. to Walton Blvd., Whitby | Pre-Construction | - | - | - | 200 | - | - | 200 |
|  |  | Construction | - | - | - | - | 480 | - | 480 |
|  |  | Total | - | - | - | 200 | 480 | - | 680 |
| 63 | Replacement of watermain on Centre St. N. from Willis Ave. to Rossland Rd. W., Whitby | Pre-Construction | - | - | - | 200 | - | - | 200 |
|  |  | Construction | - | - | - | - | 950 | - | 950 |
|  |  | Total | - | - | - | 200 | 950 | - | 1,150 |
| 64 | Replacement of a watermain on Orchard Crt. from St. Lawrence St. to Orchard Crt., Whitby | Pre-Construction | - | - | - | - | - | 100 | 100 |
|  |  | Construction | - | - | - | - | - | 270 | 270 |
|  |  | Total | - | - | - | - | - | 370 | 370 |
| 65 | Replacement of watermain on Athol St. from St. Lawrence St. to Clemence St., Whitby | Pre-Construction | - | 140 | - | - | - | - | 140 |
|  |  | Construction | - | - | - | 300 | - | - | 300 |
|  |  | Total | - | 140 | - | 300 | - | - | 440 |
| 66 | Replacement of watermain on St. Lawrence St. from Brock St. to Athol St., Whitby | Pre-Construction | - | 100 | - | - | - | - | 100 |
|  |  | Construction | - | - | - | 130 | - | - | 130 |
|  |  | Total | - | 100 | - | 130 | - | - | 230 |
| 67 | Replacement of watermain on Byron St. North from Willis Ave. to Starr Ave., Whitby | Pre-Construction | - | - | - | - | - | 100 | 100 |
|  |  | Construction | - | - | - | - | - | 260 | 260 |
|  |  | Total | - | - | - | - | - | 360 | 360 |
| 68 | Erosion protection Crystal Beach Boulevard watermain, Whitby | Pre-Construction | 500 | - | - | - | - | - | - |
|  |  | Construction | - | 5,000 | - | - | - | - | 5,000 |
|  |  | Total | 500 | 5,000 | - | - | - | - | 5,000 |


|  | (D) Durhan | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
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| 69 | Replacement of watermain on High St. from Mary St. to Walnut St., Whitby | Pre-Construction | - | - |  | - | - | - | - |
|  |  | Construction | 260 | - |  | - | - | - | - |
|  |  | Total | 260 | - |  | - | - | - | - |
| 70 | Replacement of watermain on Cochrane St. from Ferguson St. to 125 m north of Beech St. W., Whitby | Pre-Construction | - | 300 |  | - | - | - | 300 |
|  |  | Construction | - | - |  | - | 1,130 | - | 1,130 |
|  |  | Total | - | 300 |  | - | 1,130 | - | 1,430 |
| 71 | Replacement of watermain on Belton Court from Michael Blvd to S/L, Whitby | Pre-Construction | - | - |  | - | - | - | - |
|  |  | Construction | 1,000 | - | - | - | - | - | - |
|  |  | Total | 1,000 | - | - | - | - | - | - |
| 72 | Replacement of watermain on Harbour St. from Watson Rd. to dead-end, Whitby | Pre-Construction | - | - | - | - | - | 100 | 100 |
|  |  | Construction | - | - | - | - | - | 1,000 | 1,000 |
|  |  | Total | - | - | - | - | - | 1,100 | 1,100 |
| 73 | Replacement of watermain on Mary St. from Rossland Rd. to Robert St., Oshawa | Pre-Construction | 140 | - | - | - | - | - | - |
|  |  | Construction | 2,195 | - | - | - | - | - | - |
|  |  | Total | 2,335 | - | - | - | - | - | - |
| 74 | Replacement of watermain on Simcoe St. from Metcalf St. to Quebec St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 1,300 | - | - | - | - | - | - |
|  |  | Total | 1,300 | - | - | - | - | - | - |
| 75 | Replacement of feedermain on Simcoe St. from Albert St. to Bloor St. and Bloor St. from Simcoe St. to Albert St., Oshawa | Pre-Construction | - | 500 | - | - | - | - | 500 |
|  |  | Construction | - | - | - | 4,900 | - | - | 4,900 |
|  |  | Total | - | 500 | - | 4,900 | - | - | 5,400 |
| 76 | Replacement of a feedermain on R.R. 22 (Bloor St.) from Cubert St. to Oxford St., Oshawa | Pre-Construction | - | - | - | - | - | 60 | 60 |
|  |  | Construction | - | - | - | - | - | 240 | 240 |
|  |  | Total | - | - | - | - | - | 300 | 300 |
| 77 | Replacement of a feedermain on R.R. 22 (Bloor St.) from Wilson Rd. to Holland St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 100 | - | - | - | - | 100 |
|  |  | Total | - | 100 | - | - | - | - | 100 |


|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 78 | Replacement of a watermain on Simcoe St. South and easement from Erie St. to Albert St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 135 | - | - | - | - | - | - |
|  |  | Total | 135 | - | - | - | - | - | - |
| 79 | Replacement of a watermain on Olive Ave from Simcoe St. to Drew St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 385 | - | - | - | - | - | - |
|  |  | Total | 385 | - | - | - | - | - | - |
| 80 | Replacement of watermain on R.R. 52 (Thornton Rd.) from South of Bloor St. under the Canadian National Railway, Oshawa | Pre-Construction | - | - | - | 200 | - | - | 200 |
|  |  | Construction | - | - | - | - | 200 | 2,300 | 2,500 |
|  |  | Total | - | - | - | 200 | 200 | 2,300 | 2,700 |
| 81 | Replacement of watermain on Highway No. 2 (King St. W.) from Garrard Rd. to Thornton Rd., Oshawa | Pre-Construction | - | - | - | 83 | - | - | 83 |
|  |  | Construction | - | - | - | 100 | - | - | 100 |
|  |  | Total | - | - | - | 183 | - | - | 183 |
| 82 | Replacement of watermain on Highway No. 2 (King St. W.) from Midtown Dr. to Queen St., Oshawa | Pre-Construction | 100 | - | - | - | - | - | - |
|  |  | Construction | - | 400 | - | - | - | - | 400 |
|  |  | Total | 100 | 400 | - | - | - | - | 400 |
| 83 | Replacement of watermain on Highway No. 2 (King St. E.) from Wilson Rd. to 30 m east of Harmony Creek, Oshawa | Pre-Construction | - | - | - | 232 | - | - | 232 |
|  |  | Construction | - | - | - | - | 765 | - | 765 |
|  |  | Total | - | - | - | 232 | 765 | - | 997 |
| 84 | Replacement of watermain on Highway No. 2 (King St. E.) from Harmony Rd. to Kingsway College, Oshawa | Pre-Construction | - | - | - | 500 | - | - | 500 |
|  |  | Construction | - | - | - | - | - | 1,900 | 1,900 |
|  |  | Total | - | - | - | 500 | - | 1,900 | 2,400 |
| 85 | Replacement of feedermain on Ritson Rd. from Oshawa Water Supply Plant Valve Chamber to Kawartha Ave., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 7,600 | - | - | - | - | 7,600 |
|  |  | Total | - | 7,600 | - | - | - | - | 7,600 |
| 86 | Replacement of a watermain on Ritson Rd. S. from Kawartha Ave. to Simcoe St. S., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 2,800 | - | - | 2,800 |
|  |  | Total | - | - | - | 2,800 | - | - | 2,800 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 87 | Replacement of a watermain on Thornton Rd. from Adelaide Ave. to Tatra Dr., Oshawa | Pre-Construction | - | - | - | 160 | - | - | 160 |
|  |  | Construction | - | - | - | - | - | 550 | 550 |
|  |  | Total | - | - | - | 160 | - | 550 | 710 |
| 88 | Replacement of a watermain on Adelaide Ave. from Kaiser Cres. to Simcoe St., Oshawa | Pre-Construction | - | - | - | - | - | 100 | 100 |
|  |  | Construction | - | - | - | - | - | 220 | 220 |
|  |  | Total | - | - | - | - | - | 320 | 320 |
| 89 | Replacement of a watermain on Ritson Rd. from Annis St. to Conant St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 290 | - | - | - | - | - | - |
|  |  | Total | 290 | - | - | - | - | - | - |
| 90 | Replacement of a watermain on Douglas St. from Conant St. to Wolfe St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 340 | - | - | - | - | - | - |
|  |  | Total | 340 | - | - | - | - | - | - |
| 91 | Replacement of watermain on Conant St. from Myers Rd. to Nelson St., Oshawa | Pre-Construction | 100 | - | - | - | - | - | - |
|  |  | Construction | - | - | 390 | - | - | - | 390 |
|  |  | Total | 100 | - | 390 | - | - | - | 390 |
| 92 | Replacement of a watermain on Oxford St. from Malaga Rd. to Porter St. and Porter St. from Oxford St. to Glen St., Oshawa | Pre-Construction | - | - | 340 | - | - | - | 340 |
|  |  | Construction | - | - | - | - | 1,150 | - | 1,150 |
|  |  | Total | - | - | 340 | - | 1,150 | - | 1,490 |
| 93 | Replacement of watermain on Valencia Rd. from Oxford St. to dead-end, Oshawa | Pre-Construction | - | - | 100 | - | 300 | - | 400 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | - | 100 | - | 300 | - | 400 |
| 94 | Replacement of a watermain on Ansley Crt. from Rossland Rd. to dead-end, Oshawa | Pre-Construction | - | - | - | - | - | 100 | 100 |
|  |  | Construction | - | - | - | - | - | 280 | 280 |
|  |  | Total | - | - | - | - | - | 380 | 380 |
| 95 | Replacement of a watermain on Wilson Rd. from Raleigh Ave. to Wentworth St., Oshawa | Pre-Construction | - | - | - | - | - | 100 | 100 |
|  |  | Construction | - | - | - | - | - | 425 | 425 |
|  |  | Total | - | - | - | - | - | 525 | 525 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 96 | Replacement of watermain on East Shore Dr./Port | Pre-Construction | - | - | - | - | - | - | - |
|  | Darlington Rd. from Lake Rd. to Bowmanville WaterSupply Plant, Bowmanville | Construction | - | - | 1,150 | - | - | - | 1,150 |
|  |  | Total | - | - | 1,150 | - | - | - | 1,150 |
| 97 | Replacement of watermain on Baseline Rd. East from Liberty St. to Mearns Ave., Bowmanville | Pre-Construction | - | - | 150 | - | - | - | 150 |
|  |  | Construction | - | - | 1,300 | 1,300 | - | - | 2,600 |
|  |  | Total | - | - | 1,450 | 1,300 | - | - | 2,750 |
| 98 | Replacement of watermain on North St. from Wilmot St. to Concession Rd. 3, Newcastle | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 1,750 | - | - | - | - | 1,750 |
|  |  | Total | - | 1,750 | - | - | - | - | 1,750 |
| 99 | Replacement of watermain on Amos St. from Toronto St. to Highway 401, Newcastle | Pre-Construction | - | - | - | - | 100 | - | 100 |
|  |  | Construction | - | - | - | - | 210 | - | 210 |
|  |  | Total | - | - | - | - | 310 | - | 310 |
| 100 | Replacement of watermain on First Ave. from Brock St. to Dominion St., Uxbridge | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 280 | - | - | - | - | 280 |
|  |  | Total | - | 280 | - | - | - | - | 280 |
| 101 | Cemetery Rd. from Toronto St to 600 m northerly required to loop the watermain and system security | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 180 | - | - | - | - | 180 |
|  |  | Total | - | 180 | - | - | - | - | 180 |
| 102 | Replacement of watermain on Caleb St. from Clarke St. to Queen St., Port Perry | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 350 | - | - | - | - | 350 |
|  |  | Total | - | 350 | - | - | - | - | 350 |
| 103 | Replacement of watermain on Bigelow St. from 140 m north of Kellett St. to Kellett St., Kellett St. from Bigelow St. to Simcoe St., Beech St from Simcoe St. to 60 m east of Kent St., and Kent St. from Beech St. to 100 m north of Beech St., Port Perry | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 440 | - | - | - | - | - | - |
|  |  | Total | 440 | - | - | - | - | - | - |


|  | (\%) Durhat | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 104 | Replacement of watermain on Rosa St. from Paxton St. to dead-end, Port Perry | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 1,250 | - | - | - | 1,250 |
|  |  | Total | - | - | 1,250 | - | - | - | 1,250 |
| 105 | Replacement of watermain on Ottawa St. from Queen St. to MacDonald St., Port Perry | Pre-Construction | - | - | - | 150 | - | - | 150 |
|  |  | Construction | - | - | - | 730 | - | - | 730 |
|  |  | Total | - | - | - | 880 | - | - | 880 |
| 106 | Replacement of watermain on Bay St. from Old Simcoe St. to Bigelow St., Port Perry | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 960 | - | - | - | 960 |
|  |  | Total | - | - | 960 | - | - | - | 960 |
| 107 | Replacement of watermain on Kent St. from 85 m north of Beech St. to Lakeshore Rd., Port Perry | Pre-Construction | - | - | 100 | - | - | - | 100 |
|  |  | Construction | - | - | - | - | 600 | - | 600 |
|  |  | Total | - | - | 100 | - | 600 | - | 700 |
| 108 | Replacement of watermain on Perry St. from North St. to Paxton St., Port Perry | Pre-Construction | - | - | - | - | - | 75 | 75 |
|  |  | Construction | - | - | - | - | - | 180 | 180 |
|  |  | Total | - | - | - | - | - | 255 | 255 |
| 109 | Replacement of watermain on Jane St. from Ida St. to 220 m north of Ida St., Sunderland | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 775 | - | - | - | - | - | - |
|  |  | Total | 775 | - | - | - | - | - | - |
| 110 | Replacement of watermain on Maple St. from River St. to dead-end, Sunderland | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 146 | - | - | - | - | - | - |
|  |  | Total | 146 | - | - | - | - | - | - |
| 111 | Replacement of watermain on Cameron St. from 215 m east of McRae St. to 750 m west of R.R. 2 Simcoe St., Cannington | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 1,650 | - | - | - | - | 1,650 |
|  |  | Total | - | 1,650 | - | - | - | - | 1,650 |
| 112 | Replacement of watermain on Laidlaw St. from Cameron St. to Park St., Cannington | Pre-Construction | - | - | - | - | - | 100 | 100 |
|  |  | Construction | - | - | - | - | - | 450 | 450 |
|  |  | Total | - | - | - | - | - | 550 | 550 |


|  | (D) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 113 | Replacement of watermain on Centre St. from Mara Rd. to James St., Beaverton | Pre-Construction | 50 | - | - | - | - | - | - |
|  |  | Construction | - | - | 650 | - | - | - | 650 |
|  |  | Total | 50 | - | 650 | - | - | - | 650 |
| 114 | Replacement of watermain on Simcoe St. from Canadian National Railway to John St., Beaverton | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 1,340 | - | - | - | - | 1,340 |
|  |  | Total | - | 1,340 | - | - | - | - | 1,340 |
| 115 | Replacement of watermain on Simcoe St. from Beaverton Water Supply Plant to 60 m west of Canadian National Railway, Beaverton | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 1,340 | - | - | - | 1,340 |
|  |  | Total | - | - | 1,340 | - | - | - | 1,340 |
| 116 | Replacement of watermain on James St. from Main St. to Centre St./Highland Crt., Beaverton | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 580 | - | - | - | - | 580 |
|  |  | Total | - | 580 | - | - | - | - | 580 |
| 117 | Replacement of watermain on King St. from Mara Rd. to dead-end, Beaverton | Pre-Construction | - | - | - | 200 | - | - | 200 |
|  |  | Construction | - | - | - | 1,100 | - | - | 1,100 |
|  |  | Total | - | - | - | 1,300 | - | - | 1,300 |
| 118 | Allowance for replacement of watermains in various locations | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 18,966 | 18,966 |
|  |  | Total | - | - | - | - | - | 18,966 | 18,966 |
| 119 | Allowance for the evaluation of feedermains/watermains at creek crossings | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 75 | 75 | 75 | 75 | 75 | - | 300 |
|  |  | Total | 75 | 75 | 75 | 75 | 75 | - | 300 |
| 120 | Allowance for construction of services in unserviced areas in response to requests or petitions | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
|  |  | Total | - | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
| 121 | Zone 1 feedermain on Bayly St. from Toy Ave. to Pickering Beach Rd., Pickering/Ajax | Pre-Construction | - | - | 1,500 | - | - | - | 1,500 |
|  |  | Construction | - | - | - | - | 20,400 | - | 20,400 |
|  |  | Total | - | - | 1,500 | - | 20,400 | - | 21,900 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 122 | Zone 2 feedermain on Taunton Rd. from Westney Rd. to 200 m west of Harwood Ave., Ajax | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 3,000 | - | - | - | - | 3,000 |
|  |  | Total | - | 3,000 | - | - | - | - | 3,000 |
| 123 | Zone 2 feedermain on William Jackson Dr. \& Taunton Rd. from Earl Grey Ave. to Ravenscroft Rd., Pickering/ Ajax | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 7,900 | - | - | - | - | - | - |
|  |  | Total | 7,900 | - | - | - | - | - | - |
| 124 | Zone 2 feedermain on Church St. from south side of the hydro right of way to Taunton Rd., Ajax | Pre-Construction | 800 | - | - | - | - | - | - |
|  |  | Construction | 3,400 | - | - | - | - | - | - |
|  |  | Total | 4,200 | - | - | - | - | - | - |
| 125 | Watermain on Hunt St. from Westney Rd. to Harwood Ave., Ajax | Pre-Construction | - | - | - | - | - | - |  |
|  |  | Construction | - | - | 1,600 | - | - | - | 1,600 |
|  |  | Total | - | - | 1,600 | - | - | - | 1,600 |
| 126 | Zone 1 feedermain from Whitby Water Supply Plant to Thornton Rd., Whitby/Oshawa | Pre-Construction | - | - |  |  | - | - | - |
|  |  | Construction | - | 9,000 | 7,000 | 7,000 | - | - | 23,000 |
|  |  | Total | - | 9,000 | 7,000 | 7,000 | - | - | 23,000 |
| 127 | Zone 1 feedermain on Manning Rd. from Anderson St. to Hydro corridor., Whitby | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 1,840 | - | - | - | - | 1,840 |
|  |  | Total | - | 1,840 | - | - | - | - | 1,840 |
| 128 | Zone 1 West Whitby feedermain on Brock St./Victoria St. to Rossland Rd., Whitby | Pre-Construction | - | - | - | - | 600 | 650 | 1,250 |
|  |  | Construction | - | - | - | - | - | - |  |
|  |  | Total | - | - | - | - | 600 | 650 | 1,250 |
| 129 | Zone 3 feedermain on Garrard Rd. from north of the MidBlock Arterial to Winchester Rd., Whitby (East Loop) | Pre-Construction | - | - | - | - | - | - |  |
|  |  | Construction | - | 6,400 | - | - | - | - | 6,400 |
|  |  | Total | - | 6,400 | - | - | - | - | 6,400 |
| 130 | Zone 3 feedermain on Winchester Rd. from Cachet Blvd. to Garrard Rd., Whitby (East Loop) |  | - | - | - | - | - | - |  |
|  |  | Construction | - | 1,100 | - | - | - | - | 1,100 |
|  |  | Total | - | 1,100 | - | - | - | - | 1,100 |


|  | (D) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 131 | Zone 3 feedermain on Conlin Rd. from Anderson St. to Thickson Rd., Whitby (Region's share only) | Pre-Construction |  | - | - | - | - | - | - |
|  |  | Construction | 1,000 | - | - | - | - | - | - |
|  |  | Total | 1,000 | - | - | - | - | - | - |
| 132 | Zone 3 feedermain on Mid-Block Arterial from Lynde Creek to Ashburn Rd., Whitby (West Loop) (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 5,600 | - | - | - | - | - | - |
|  |  | Total | 5,600 | - | - | - | - | - | - |
| 133 | Zone 3 feedermain on Ashburn Rd. from Amanda Ave. to Columbus Rd., Whitby (West Loop) (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 5,950 | - | - | - | - | 5,950 |
|  |  | Total | - | 5,950 | - | - | - | - | 5,950 |
| 134 | Zone 3 feedermain on Columbus Rd. from Ashburn Rd. to 360 m east of Ashburn Rd., Whitby (West Loop) (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 1,260 | - | - | - | - | 1,260 |
|  |  | Total | - | 1,260 | - | - | - | - | 1,260 |
| 135 | Zone 3 feedermain on Columbus Rd. from Ashburn Rd. to Country Lane, Whitby (West Loop) (Region's Share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | 5,850 | - | 5,850 |
|  |  | Total | - | - | - | - | 5,850 | - | 5,850 |
| 136 | Zone 4 feedermain from Thickson Rd. Zone 4 water pumping station to Zone 4 Reservoir, Whitby | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 28,600 | 28,600 |
|  |  | Total | - | - | - | - | - | 28,600 | 28,600 |
| 137 | Zone 4 feedermain on Brawley Rd. from Ashburn Rd. to Duffs Rd., Whitby | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 6,475 | - | - | - | - | 6,475 |
|  |  | Total | - | 6,475 | - | - | - | - | 6,475 |
| 138 | Zone 4 feedermain on Ashburn Rd. from Brawley Rd. to Mid-block., Whitby | Pre-Construction | - | 700 | - | - | - | - | 700 |
|  |  | Construction | - | - | - | - | - | 8,100 | 8,100 |
|  |  | Total | - | 700 | - | - | - | 8,100 | 8,800 |
| 139 | Zone 4 feedermain on Columbus Rd. from Thickson Rd. to Ritson Rd., Whitby/Oshawa | Pre-Construction | - | 1,500 | - | - | - | - | 1,500 |
|  |  | Construction | - | - | - | 17,900 | - | - | 17,900 |
|  |  | Total | - | 1,500 | - | 17,900 | - | - | 19,400 |


|  | (\%) Durhat | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 140 | Watermain on Britannia Ave. from Thornton Rd. to Windfields Farm Dr., Oshawa | Pre-Construction | 750 | - | - | - | - | - | - |
|  |  | Construction | - | - | 1,250 | - | - | - | 1,250 |
|  |  | Total | 750 | - | 1,250 | - | - | - | 1,250 |
| 141 | Watermain on local road from Windfields Farm Dr. to Winchester Rd., Oshawa | Pre-Construction | - | - | 150 | - | - | - | 150 |
|  |  | Construction | - | - | - | 1,100 | - | - | 1,100 |
|  |  | Total | - | - | 150 | 1,100 | - | - | 1,250 |
| 142 | Watermain on Stevenson Rd. from Taunton Rd. to Conlin Rd., Oshawa | Pre-Construction | - | 300 | - | - | - | - | 300 |
|  |  | Construction | - | - | 2,200 | - | - | - | 2,200 |
|  |  | Total | - | 300 | 2,200 | - | - | - | 2,500 |
| 143 | Watermain on Thornton Rd. from 100 m North of Conlin Rd. within the Northwood Employment Area, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 150 | - | - | - | - | - | - |
|  |  | Total | 150 | - | - | - | - | - | - |
| 144 | Watermain modifications in conjunction with the twinning of northwest branch of Harmony Creek sub-trunk sanitary sewer from 200 m south of Beatrice St. to Ritson Rd., Oshawa | Pre-Construction | - | 40 | - | - | - | - | 40 |
|  |  | Construction | - | 135 | - | - | - | - | 135 |
|  |  | Total | - | 175 | - | - | - | - | 175 |
| 145 | Zone 3 feedermain on Conlin Rd. from Garrard Rd. to Ritson Rd.,Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 7,525 | - | 9,500 | - | - | 17,025 |
|  |  | Total | - | 7,525 | - | 9,500 | - | - | 17,025 |
| 146 | Zone 3 feedermain on Conlin Rd. from Ritson Rd. to Wilson Rd., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 4,000 | - | - | - | 4,000 |
|  |  | Total | - | - | 4,000 | - | - | - | 4,000 |
| 147 | Zone 4 feedermain from Proposed Zone 4 Water Pumping Station at Harmony Reservoir to Proposed Winchester Zone 4 Reservoir, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 17,000 | - | - | - | 17,000 |
|  |  | Total | - | - | 17,000 | - | - | - | 17,000 |


|  | Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 148 | Zone 4 feedermain on Ritson Rd. from Columbus Rd. to Winchester Rd., Oshawa | Pre-Construction | - | 600 | - | - | - | - | 600 |
|  |  | Construction | - | - | - | - | - | 7,200 | 7,200 |
|  |  | Total | - | 600 | - | - | - | 7,200 | 7,800 |
| 149 | Zone 4 feedermain on Winchester Rd. from Ritson Rd. to Harmony Rd., Oshawa | Pre-Construction | - | 600 | - | - | - | - | 600 |
|  |  | Construction | - | - | - | - | - | 6,750 | 6,750 |
|  |  | Total | - | 600 | - | - | - | 6,750 | 7,350 |
| 150 | Zone 1 feedermain on Baseline Rd. from Prestonvale Rd. to Trulls Rd., Courtice | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 3,650 | - | - | - | 3,650 |
|  |  | Total | - | - | 3,650 | - | - | - | 3,650 |
| 151 | Zone 1 feedermain on Prestonvale Rd. from Baseline Rd. to 950 m north of Baseline Rd., Courtice | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 1,850 | - | - | - | 1,850 |
|  |  | Total | - | - | 1,850 | - | - | - | 1,850 |
| 152 | Zone 1 feedermain on easement from Townline Rd. to Prestonvale Rd., Courtice | Pre-Construction | - | - | - | - | - | - |  |
|  |  | Construction | - | - | 3,000 | - | - | - | 3,000 |
|  |  | Total | - | - | 3,000 | - | - | - | 3,000 |
| 153 | Zone 2 feedermain on Bloor St. from Townline Rd. to Trulls Rd., Courtice |  | - | - | - | - | - | - |  |
|  |  | Construction | - | - | - | - | - | 350 | 350 |
|  |  | Total | - | - | - | - | - | 350 | 350 |
| 154 | Zone 1 feedermain on Lambs Rd. from Hwy No. 2 (King St.) to Zone 1 Liberty Street Reservoir, Bowmanville | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 17,900 | 27,000 | - | - | - | - | 27,000 |
|  |  | Total | 17,900 | 27,000 | - | - | - | - | 27,000 |
| 155 | Zone 1 feedermain on Baseline Rd. from Bowmanville Ave. to Liberty St., Bowmanville | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 2,400 | 2,400 | - | 3,000 | - | 7,800 |
|  |  | Total | - | 2,400 | 2,400 | - | 3,000 | - | 7,800 |
| 156 | Zone 1 feedermain from Bowmanville Water Supply Plant to Baseline Rd., Bowmanville | Pre-Construction | - | 500 | - | 500 | - | - | 1,000 |
|  |  | Construction | - |  | - | - |  | 10,600 | 10,600 |
|  |  | Total | - | 500 | - | 500 | - | 10,600 | 11,600 |


|  | (\%) Durhat | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 157 | Zone 1 feedermain on Baseline Rd. from Liberty St. to Mearns Ave., Bowmanville | Pre-Construction | - | - | - | 520 | - | 540 | 1,060 |
|  |  | Construction | - | - | - | - | - | 2,500 | 2,500 |
|  |  | Total | - | - | - | 520 | - | 3,040 | 3,560 |
| 158 | Zone 2 feedermain on Liberty St. from Concession Rd. 3 and Concession Rd. 4 to Zone 2 Reservoir, Bowmanville | Pre-Construction | 1,200 | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 8,300 | - | - | 8,300 |
|  |  | Total | 1,200 | - | - | 8,300 | - | - | 8,300 |
| 159 | Zone 1 feedermain from Arthur Street reservoir to future Zone 1 water storage facility, Newcastle | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 3,200 | - | - | - | - | 3,200 |
|  |  | Total | - | 3,200 | - | - | - | - | 3,200 |
| 160 | Zone 1 feedermain on Highway No. 2 (King Ave.) from Rudell Rd. to 200 m west of North St., Newcastle | Pre-Construction | 120 | - | - | - | - | - | - |
|  |  | Construction | - | 2,120 | - | - | - | - | 2,120 |
|  |  | Total | 120 | 2,120 | - | - | - | - | 2,120 |
| 161 | Zone 2 feedermain on Arthur St. from the Zone 2 pumping station to existing Andrew St. pumping station, Newcastle | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 4,800 | - | - | - | - | 4,800 |
|  |  | Total | - | 4,800 | - | - | - | - | 4,800 |
| 162 | Watermain on Grady Dr. from Whitehand Cres. to North St., Newcastle | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 850 | - | - | - | - | 850 |
|  |  | Total | - | 850 | - | - | - | - | 850 |
| 163 | Watermain on Concession Rd. 5 to service the westerly portion of the Beaverton Avenue Employment Area A, Brock | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 2,450 | - | - | - | - | 2,450 |
|  |  | Total | - | 2,450 | - | - | - | - | 2,450 |
| 164 | Water Meter installation and replacement | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 3,000 | 2,814 | 3,100 | 4,000 | 5,000 | 32,500 | 47,414 |
|  |  | Total | 3,000 | 2,814 | 3,100 | 4,000 | 5,000 | 32,500 | 47,414 |
| 165 | Depots - Replacement of polybutylene service connections in various locations | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 50 | 50 | - | - | - | - | 50 |
|  |  | Total | 50 | 50 | - | - | - | - | 50 |


|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 166 | Replacement of lead service connection in various locations | Pre-Construction |  |  |  |  |  | - | - |
|  |  | Construction | 450 | 1,000 | 1,000 | 1,000 | 1,000 | 25,000 | 29,000 |
|  |  | Total | 450 | 1,000 | 1,000 | 1,000 | 1,000 | 25,000 | 29,000 |
| 167 | Replacement of valves | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 400 | 450 | 450 | 500 | 600 | 4,400 | 6,400 |
|  |  | Total | 400 | 450 | 450 | 500 | 600 | 4,400 | 6,400 |
| 168 | Valve Chamber Condition Assessment and inspections | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 450 | 450 | 450 | 450 | - | - | 1,350 |
|  |  | Total | 450 | 450 | 450 | 450 | - | - | 1,350 |
| 169 | Replacement of hydrants | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 200 | 250 | 250 | 300 | 350 | 2,500 | 3,650 |
|  |  | Total | 200 | 250 | 250 | 300 | 350 | 2,500 | 3,650 |
| Linear Infrastructure Subtotal |  |  | 64,491 | 134,883 | 74,439 | 84,315 | 59,235 | 233,521 | 586,393 |
| Buildings and Structures |  |  |  |  |  |  |  |  |  |
| $170$ | Expansion of the Ajax Water Supply Plant from 163.6 MLD to 327 MLD, Ajax | Pre-Construction | - | 12,500 | - | - | - | - | 12,500 |
|  |  | Construction | - | - | - | - | 138,500 | - | 138,500 |
|  |  | Total | - | 12,500 | - | - | 138,500 | - | 151,000 |
| $171$ | Proposed Ajax Zone 1 Water Storage facility - 11 ML, Ajax | Pre-Construction | - | 1,200 | - | - | - | - | 1,200 |
|  |  | Construction | - | - | - | 12,700 | - | - | 12,700 |
|  |  | Total | - | 1,200 | - | 12,700 | - | - | 13,900 |
| $172$ | Expansion of the Whitby Water Supply Plant from 109 MLD to 218 MLD, Whitby | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 13,500 | 15,500 | - | 218,800 | - | - | 234,300 |
|  |  | Total | 13,500 | 15,500 | - | 218,800 | - | - | 234,300 |
| 173 | Whitby Water Supply Plant - Plant 1 Upgrades and Rehabilitation Works proposed works to include but not limited to building envelope improvements, filter treatment process upgrades, rehabilitation works for electrical, mechanical and process systems | Pre-Construction | - | - | - | - | 2,500 | - | 2,500 |
|  |  | Construction | - | - | - | - | - | 17,300 | 17,300 |
|  |  | Total | - | - | - | - | 2,500 | 17,300 | 19,800 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 |  | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 174 | Garrard Rd. Zone 1 Reservoir Expansion from 31 ML to 50 ML and Zone 2 pumping station expansion, Whitby | Pre-Construction | - | - | 2,000 |  | - | - | - | 2,000 |
|  |  | Construction | - | - | - |  | - | - | 17,200 | 17,200 |
|  |  | Total | - | - | 2,000 |  | - | - | 17,200 | 19,200 |
| 175 | Garrard Rd. Zone 3 Water Pumping Station - upgrades, Whitby | Pre-Construction | - | - | - |  | - | - | - | - |
|  |  | Construction | 1,740 | - | - |  | - | - | - | - |
|  |  | Total | 1,740 | - | - |  | - | - | - | - |
| 176 | Thickson Rd. Zone 3 Water Pumping Station Expansion to 22.7 MLD, Whitby | Pre-Construction | - | - | - |  | - | - | - | - |
|  |  | Construction | - | 11,800 | - |  | - | - | - | 11,800 |
|  |  | Total | - | 11,800 | - |  | - | - | - | 11,800 |
| 177 | Proposed Zone 4 Pumping Station at the Thickson Rd. Reservoir, Whitby | Pre-Construction | - | - | - |  | - | - | - | - |
|  |  | Construction | - | - | 1,000 |  | - | - | - | 1,000 |
|  |  | Total | - | - | 1,000 |  | - | - | - | 1,000 |
| 178 | Proposed Whitby Zone 4 Storage Facility - 13 ML, Whitby | Pre-Construction | - | - | - |  | - | - | - | - |
|  |  | Construction | - | - | 35,600 |  | - | - | - | 35,600 |
|  |  | Total | - | - | 35,600 |  | - | - | - | 35,600 |
| 179 | Proposed Whitby Zone 4 \& 5 Pumping Station at Duffs Rd. Reservoir and feedermain, Whitby | Pre-Construction | 2,300 | - | - |  | - | - | - | - |
|  |  | Construction | - | - | - |  | - | 12,000 | - | 12,000 |
|  |  | Total | 2,300 | - | - |  | - | 12,000 | - | 12,000 |
| 180 | Oshawa Water Supply Plant - break wall modifications | Pre-Construction | - | - | - |  | - | - | - | - |
|  |  | Construction | - | 1,120 | - |  | - | - | - | 1,120 |
|  |  | Total | - | 1,120 | - |  | - | - | - | 1,120 |
| 181 | Taunton Rd. Zone 2 Reservoir Expansion from 13 ML to 27 ML, Oshawa | Pre-Construction | - | - | 2,000 |  | - | - | - | 2,000 |
|  |  | Construction | - | - | - |  | - | 17,000 | - | 17,000 |
|  |  | Total | - | - | 2,000 |  | - | 17,000 | - | 19,000 |
| $182$ | Grandview Zone 2 Pumping Station Expansion, Oshawa | Pre-Construction | - | - | 2,000 |  | - | - | - | 2,000 |
|  |  | Construction | - | - | - |  | - | 8,000 | - | 8,000 |
|  |  | Total | - | - | 2,000 |  | - | 8,000 | - | 10,000 |


|  | (D) Durha! | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 183 | Taunton Rd. Zone 3 Water Pumping Station Expansion from 27 ML to 75 ML , Oshawa | Pre-Construction | - | 1,000 | - | 4,000 | - | - | 5,000 |
|  |  | Construction | - | - | - | - | - | 20,000 | 20,000 |
|  |  | Total | - | 1,000 | - | 4,000 | - | 20,000 | 25,000 |
| 184 | Harmony Rd. Zone 3 Reservoir Expansion, Oshawa | Pre-Construction | - | 600 | - | 1,500 | - | - | 2,100 |
|  |  | Construction | - | - | - | - | - | 6,000 | 6,000 |
|  |  | Total | - | 600 | - | 1,500 | - | 6,000 | 8,100 |
| 185 | Proposed Zone 4 Pumping Station at the Harmony Rd. Reservoir, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 8,000 | - | - | - | 8,000 |
|  |  | Total | - | - | 8,000 | - | - | - | 8,000 |
| 186 | Proposed Oshawa Zone 4 Water Storage Facility - 16 ML, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | 44,800 | - | 44,800 |
|  |  | Total | - | - | - | - | 44,800 | - | 44,800 |
| 187 | Proposed Zone 5 Pumping Station at Harmony Rd. Reservoir and feedermain, Oshawa | Pre-Construction | 1,000 | - | - | - | - | - | - |
|  |  | Construction | - | - | 10,200 | - | - | - | 10,200 |
|  |  | Total | 1,000 | - | 10,200 | - | - | - | 10,200 |
| 188 | Hortop Water Pumping Station - pumping station replacement, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 10,600 | - | - | - | 10,600 |
|  |  | Total | - | - | 10,600 | - | - | - | 10,600 |
| 189 | Bowmanville Water Supply Plant Expansion from 36 MLD to 55 MLD | Pre-Construction | - | - | 4,000 | - | - | - | 4,000 |
|  |  | Construction | - | - | - | - | - | 55,000 | 55,000 |
|  |  | Total | - | - | 4,000 | - | - | 55,000 | 59,000 |
| 190 | Proposed Liberty Street Zone 1 Reservoir 11 ML and demolition of the existing elevated tank | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 17,200 | - | - | 1,500 | - | - | 1,500 |
|  |  | Total | 17,200 | - | - | 1,500 | - | - | 1,500 |
| 191 | Proposed Zone 2 Pumping Station at the Zone 1 Reservoir - Bowmanville | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 6,300 | - | - | - | - | - | - |
|  |  | Total | 6,300 | - | - | - | - | - | - |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 192 | Bowmanville Zone 2 reservoir expansion | Pre-Construction | - | 600 | - | 1,325 | - | - | 1,925 |
|  |  | Construction | - | - | - | - | - | 7,700 | 7,700 |
|  |  | Total | - | 600 | - | 1,325 | - | 7,700 | 9,625 |
| 193 | Newcastle Water Supply Plant - demolition of plant No. 1 | Pre-Construction | 1,000 | - | - | - | - | - | - |
|  |  | Construction | - | 3,400 | - | - | - | - | 3,400 |
|  |  | Total | 1,000 | 3,400 | - | - | - | - | 3,400 |
| 194 | Proposed Zone 1 Newcastle Reservoir 11 ML | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 16,500 | - | - | - | 16,500 |
|  |  | Total | - | - | 16,500 | - | - | - | 16,500 |
| 195 | Proposed Zone 2 Newcastle Water Pumping Station | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 11,200 | - | - | - | 11,200 |
|  |  | Total | - | - | 11,200 | - | - | - | 11,200 |
|  | Proposed Zone 2 Newcastle Reservoir | Pre-Construction | - | - | - | 500 | - | 1,600 | 2,100 |
|  |  | Construction | - | - | - | - | - | 6,350 | 6,350 |
|  |  | Total | - | - | - | 500 | - | 7,950 | 8,450 |
|  | Proposed Zone 1 Orono Storage Facility 1 ML | Pre-Construction | - | - | - | - | - | 1,500 | 1,500 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | - | - | - | - | 1,500 | 1,500 |
| 198 | Scugog Water Supply System - Alternative Water Supply Source | Pre-Construction | 2,000 | - | - | - | - | - | - |
|  |  | Construction | 1,000 | - | 27,900 | - | - | - | 27,900 |
|  |  | Total | 3,000 | - | 27,900 | - | - | - | 27,900 |
| 199 | Port Perry Water Storage Facility - additional capacity 2.8 ML and watermain |  | - | - |  | - | - |  |  |
|  |  | Construction | - | - | 16,200 | - | - | - | 16,200 |
|  |  | Total | - | - | 16,200 | - | - | - | 16,200 |
| $200$ | Blackstock Water Supply System - upgrades to Municipal Well No. 7 |  | - | - | - | - | - | - | - |
|  |  | Construction | 350 | - | - | - | - | - | - |
|  |  | Total | 350 | - | - | - | - | - | - |


|  | Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 201 | Greenbank Water Supply System - Replacement of Municipal Well 1 and 6 with rehabilitation work at the pumphouse | Pre-Construction | 1,000 | - | - |  | - | - | - |
|  |  | Construction | - | - | - | - | - | 4,000 | 4,000 |
|  |  | Total | 1,000 | - | - |  | - | 4,000 | 4,000 |
| 202 | Uxbridge Water Supply System - New Well and Pumphouse | Pre-Construction | 500 | - | - |  | - | - | - |
|  |  | Construction | - | - | 4,220 | - | - | - | 4,220 |
|  |  | Total | 500 | - | 4,220 | - | - | - | 4,220 |
| 203 | Uxbridge Water Supply System - Municipal Well No. 7 Replacement | Pre-Construction | 500 | - | 1,000 | - | - | - | 1,000 |
|  |  | Construction | - | - | - | - | - | 5,000 | 5,000 |
|  |  | Total | 500 | - | 1,000 | - | - | 5,000 | 6,000 |
| 204 | Expansion of Quaker Hill Reservoir from 2.8 ML to 5.2 ML, Uxbridge | Pre-Construction | - | 1,200 | - | - | - | - | 1,200 |
|  |  | Construction | - | - | - | - | 6,800 | - | 6,800 |
|  |  | Total | - | 1,200 | - | - | 6,800 | - | 8,000 |
| 205 | Sunderland Water Supply System - New Well and Pumphouse with standby power (DC602) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 5,000 | - | - | - | - | 5,000 |
|  |  | Total | - | 5,000 | - | - | - | - | 5,000 |
| 206 | Sunderland Water Supply System - New Well and Pumphouse with standby power (DC603) | Pre-Construction | - | - | - | - | - | 7,000 | 7,000 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | - | - | - | - | 7,000 | 7,000 |
| 207 | Sunderland Water Supply System - Elevated Water Storage Tank (2.2 ML) and removal of the existing standpipe | Pre-Construction | - | - | - | - | - | 1,000 | 1,000 |
|  |  | Construction | - | - | - | - | - | 8,000 | 8,000 |
|  |  | Total | - | - | - | - | - | 9,000 | 9,000 |
| 208 | Cannington Water Supply System - New Well and Pumphouse with standby power (DC601) | Pre-Construction | - | - | - | - | 1,000 | 1,500 | 2,500 |
|  |  | Construction | - | - | - | - | - | 6,000 | 6,000 |
|  |  | Total | - | - | - | - | 1,000 | 7,500 | 8,500 |
| 209 | Cannington Water Supply System - Additional Water Storage from 1.4 ML to 3.0 ML | Pre-Construction | - | - | - | - | 1,000 | 1,200 | 2,200 |
|  |  | Construction | - | - | - | - | - | 8,000 | 8,000 |
|  |  | Total | - | - | - | - | 1,000 | 9,200 | 10,200 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 210 | Beaverton Water Supply Plant Expansion | Pre-Construction | - | - | - | 1,000 | - | 2,400 | 3,400 |
|  |  | Construction | - | - | - | - | - | 30,000 | 30,000 |
|  |  | Total | - | - | - | 1,000 | - | 32,400 | 33,400 |
| 211 | Beaverton - additional Water Storage from 2 ML to 4.8 ML | Pre-Construction | 500 | - | 1,000 | - | - | - | 1,000 |
|  |  | Construction | - | - | - | - | 8,000 | - | 8,000 |
|  |  | Total | 500 | - | 1,000 | - | 8,000 | - | 9,000 |
| 212 | Water Tower inspections, condition assessment and rehabilitation works | Pre-Construction | - | 100 | - | - | 100 | 300 | 500 |
|  |  | Construction | - | 400 | - | - | 400 | 1,200 | 2,000 |
|  |  | Total | - | 500 | - | - | 500 | 1,500 | 2,500 |
| 213 | Reservoir inspections, condition assessment and minor rehabilitation works | Pre-Construction | - | - | - | - | - | - |  |
|  |  | Construction | 300 | - | 300 | 300 | 300 | 1,500 | 2,400 |
|  |  | Total | 300 | - | 300 | 300 | 300 | 1,500 | 2,400 |
| 214 | Wellhead protection at Regional well sites | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 800 | 800 | 800 | 800 | 800 | 4,000 | 7,200 |
|  |  | Total | 800 | 800 | 800 | 800 | 800 | 4,000 | 7,200 |
| 215 | Water Supply Plants - Asset Management Remediation and Rehabilitation works |  | - | - | - | - | - | 8,000 | 8,000 |
|  |  | Construction | - | - | - | - | - | 32,500 | 32,500 |
|  |  | Total | - | - | - | - | - | 40,500 | 40,500 |
| 216 | New Concrete Floor in Sign Shed - Ajax Depot | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 58 | - | - | - | - | 58 |
|  |  | Total | - | 58 | - | - | - | - | 58 |
| 217 | Replace Fire Panel and Smoke Detector - Ajax WSP | Pre-Construction | 142 | - | - | - | - | - | - |
|  |  | Construction | - | 285 | - | - | - | - | 285 |
|  |  | Total | 142 | 285 | - | - | - | - | 285 |
| $218$ | Roof Replacement - Ajax WSP | Pre-Construction | - | 160 | - | - | - | - | 160 |
|  |  | Construction | - | - | 560 | - | - | - | 560 |
|  |  | Total | - | 160 | 560 | - | - | - | 720 |


|  | Durham Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 220 | Access Ladder Repair/Replacement Project - Various Locations | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 15 | - | - | - | - | - | - |
|  |  | Total | 15 | - | - | - | - | - | - |
| 221 | Construction of Mezzanine in Fleet Bay 1 - Orono Depot | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 67 | - | - | - | - | 67 |
|  |  | Total | - | 67 | - | - | - | - | 67 |
| 222 | Thermal Glass Panels for Rollup Doors and Door Operators - Orono Depot | Pre-Construction | - | - | - | - | - | - |  |
|  |  | Construction | - | 66 | - | - | - | - | 66 |
|  |  | Total | - | 66 | - | - | - | - | 66 |
|  | Replacement of Fire System - Oshawa/Whitby Depot | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 67 | - | - | - | - | - | - |
|  |  | Total | 67 | - | - | - | - | - | - |
| 225 | Repairs and Epoxy Coat Fleet Bay Concrete Floors \& Repairs to Floor Drains in Fleet Bays - Scugog Depot | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 69 | - | - | - | - | 69 |
|  |  | Total | - | 69 | - | - | - | - | 69 |
| 226 | Replace Existing Asphalt in Various Location - Scugog Depot | Pre-Construction | - | - | 10 | - | - | - | 10 |
|  |  | Construction | - | - | - | 123 | - | - | 123 |
|  |  | Total | - | - | 10 | 123 | - | - | 133 |
| 227 | Widening of Existing Canopy Entrance - Sunderland Depot |  | 8 |  |  |  | - | - |  |
|  |  | Construction | - | 42 |  |  | - | - | 42 |
|  |  | Total | 8 | 42 | - | - | - | - | 42 |



|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 237 | Water Damage on Window System - Oshawa WSP | Pre-Construction | - | 49 | - | - | - | - | 49 |
|  |  | Construction | - | - | 107 | - | - | - | 107 |
|  |  | Total | - | 49 | 107 | - | - | - | 156 |
| 238 | Front Foyer Concrete Wall/Floor Repair - Bowmanville WSP | Pre-Construction | - | 65 | - | - | - | - | 65 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | 65 | - | - | - | - | 65 |
|  | Renovation \& Optimization - 101 Consumers | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 310 | - | - | - | - | - | - |
|  |  | Total | 310 | - | - | - | - | - | - |
| 240 | Depot Rationalization - Ajax Depot Expansion | Pre-Construction | 1,667 | - | - | - | - | - | - |
|  |  | Construction | - | 11,667 | - | - | - | - | 11,667 |
|  |  | Total | 1,667 | 11,667 | - | - | - | - | 11,667 |
|  | Installation of Fencing - Plants North - Blackstock Well \#6 | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 65 | - | - | - | - | 65 |
|  |  | Total | - | 65 | - | - | - | - | 65 |
|  | 20 Bay Cold Vehicle Storage - Orono Depot Expansion | Pre-Construction | - | - | - | - | - | 73 | 73 |
|  |  | Construction | - | - | - | - | - | 1,192 | 1,192 |
|  |  | Total | - | - | - | - | - | 1,265 | 1,265 |
| $243$ | Salt and Brine Storage Building - Orono Depot Expansion |  | - | - | - | - | - | 117 | 117 |
|  |  | Construction | - | - | - | - | - | 1,050 | 1,050 |
|  |  | Total | - | - | - | - | - | 1,167 | 1,167 |
|  | Depot Rationalization - New Oshawa/Whitby Depot | Pre-Construction | 12,667 | 1,667 | - | - | - | - | 1,667 |
|  |  | Construction | - | - | 55,000 | - | - | - | 55,000 |
|  |  | Total | 12,667 | 1,667 | 55,000 | - | - | - | 56,667 |
| $245$ | New 16 Bay Cold Vehicle Storage - Scugog Depot Expansion | Pre-Construction | - | - | , | 73 | - | - | 73 |
|  |  | Construction | - | - | - | - | 993 | - | 993 |
|  |  | Total | - | - | - | 73 | 993 | - | 1,066 |


|  |  | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 246 | New Salt and Brine Storage Facility - Scugog Depot Expansion | Pre-Construction | - | - | - | 100 | - | - | 100 |
|  |  | Construction | - | - | - | - | 1,067 | - | 1,067 |
|  |  | Total | - | - | - | 100 | 1,067 | - | 1,167 |
| 247 | Additional Office Space - Scugog Depot | Pre-Construction | - | - | - | 93 | - | - | 93 |
|  |  | Construction | - | - | - | - | 407 | - | 407 |
|  |  | Total | - | - | - | 93 | 407 | - | 500 |
| 248 | Depot Rationalization - New Sunderland Depot | Pre-Construction | 1,333 | 1,333 | - | - | - | - | 1,333 |
|  |  | Construction | - | - | 14,000 | - | - | - | 14,000 |
|  |  | Total | 1,333 | 1,333 | 14,000 | - | - | - | 15,333 |
| $249$ | Repairs and Epoxy Coat Fleet Bay Concrete Floors \& Repairs to Floor Drains in Fleet Bays - Scugog Depot | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 16 | - | - | - | - | - | - |
|  |  | Total | 16 | - | - | - | - | - | - |
| Buildings and Structures Subtotal |  |  | 67,294 | 72,540 | 224,197 | 242,814 | 243,667 | 257,035 | 1,040,253 |
| Machinery \& Equipment |  |  |  |  |  |  |  |  |  |
|  |  | Pre-Construction | - | - | - | - | - | - | - |
| 250 | Ajax Water Supply Plant - Chlorine line replacement | Construction | - | 750 | - | - | - | - | 750 |
|  |  | Total | - | 750 | - | - | - | - | 750 |
| $251$ | Ajax Water Supply Plant - pump replacement with variable frequency drive | Pre-Construction | 100 |  | - | - | - | - |  |
|  |  | Construction | - | 500 | - | - | - | - | 500 |
|  |  | Total | 100 | 500 | - | - | - | - | 500 |
| 252 | Ajax Water Supply Plant - hyochlorite feed and control system upgrades | Pre-Construction |  | - | - | - | - | - | - |
|  |  | Construction | 500 | - | - | - | - | - | - |
|  |  | Total | 600 | - | - | - | - | - | - |
| 253 | Rosebank Rd. Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power |  |  |  |  |  |  | 600 | 600 |
|  |  | Construction | - | - | - | - | - | 2,100 | 2,100 |
|  |  | Total | - | - | - | - | - | 2,700 | 2,700 |


|  | (D) Durhat | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 254 | Cherrywood Water Pumping Station upgrades - pumps and feedermain, Pickering | Pre-Construction | 250 | - | - | - | - | - | - |
|  |  | Construction | - | 1,800 | - | - | - | - | 1,800 |
|  |  | Total | 250 | 1,800 | - | - | - | - | 1,800 |
| 255 | Cherrywood Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power | Pre-Construction | - | - | - | 600 | - | - | 600 |
|  |  | Construction | - | - | - | - | 2,100 | - | 2,100 |
|  |  | Total | - | - | - | 600 | 2,100 | - | 2,700 |
| 256 | Finch Ave. Elevated Water Storage Tank - Recoating | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 65 | - | - | - | - | 65 |
|  |  | Total | - | 65 | - | - | - | - | 65 |
| 257 | Whitby Water Supply Plant - Valve Chamber upgrades | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 1,100 | - | - | - | - | 1,100 |
|  |  | Total | - | 1,100 | - | - | - | - | 1,100 |
| 258 | Grandview Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch, Standby power and Variable-frequency drive (VFD) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 2,500 | - | - | - | - | 2,500 |
|  |  | Total | - | 2,500 | - | - | - | - | 2,500 |
| 259 | Thickson Rd. Water Pumping Station - replacement of the motor control centre (MCC) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 50 | - | - | - | - | 50 |
|  |  | Total | - | 50 | - | - | - | - | 50 |
| 260 | Oshawa Water Supply Plant - Valve Chamber Upgrades | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 1,150 | 1,150 |
|  |  | Total | - | - | - | - | - | 1,150 | 1,150 |
| 261 | Oshawa Water Supply Plant - Replacement/rehabilitation of the sedimentation tanks, Header \& Backwash valves, and piping |  | 300 | - | - | - | - | - |  |
|  |  | Construction | - | - | - | - | - | 2,900 | 2,900 |
|  |  | Total | 300 | - | - | - | - | 2,900 | 2,900 |


|  | (D) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 262 | Oshawa Water Supply Plant - Replacement of the Motor Control Centre | Pre-Construction | - | - | - | - | - | 500 | 500 |
|  |  | Construction | - | - | - | - | - | 1,000 | 1,000 |
|  |  | Total | - | - | - | - | - | 1,500 | 1,500 |
| 263 | Oshawa Water Supply Plant - upgrading the uninterrupted power supply UPS | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 900 | - | - | - | 900 |
|  |  | Total | - | - | 900 | - | - | - | 900 |
| 264 | Oshawa Water Supply Plant - Rehabilitation of the filters 1 to 6 | Pre-Construction | - | - | - | 1,200 | - | - | 1,200 |
|  |  | Construction | - | - | - | 3,000 | - | 8,400 | 11,400 |
|  |  | Total | - | - | - | 4,200 | - | 8,400 | 12,600 |
| 265 | Waverly Rd. Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 2,450 | - | - | - | 2,450 |
|  |  | Total | - | - | 2,450 | - | - | - | 2,450 |
| 266 | Taunton Rd. Water Pumping Station and Reservoir station improvements and replacement | Pre-Construction | 500 | - | - | - | - | - | - |
|  |  | Construction | - | - | 2,300 | - | - | - | 2,300 |
|  |  | Total | 500 | - | 2,300 | - | - | - | 2,300 |
| 267 | Bowmanville Water Supply Plant - Emergency Backwash piping and Filter bypass piping upgrades | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 200 | - | - | - | 200 |
|  |  | Total | - | - | 200 | - | - | - | 200 |
| 268 | Bowmanville Water Supply Plant - Filter Replacement | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 1,000 | - | - | - | 1,000 |
|  |  | Total | - | - | 1,000 | - | - | - | 1,000 |
| 269 | Bowmanville Zone 2 Reservoir - standby power with transfer switch | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 750 | - | - | - | - | 750 |
|  |  | Total | - | 750 | - | - | - | - | 750 |
| 270 | Bowmanville Water Supply Plant - header and pump replacement with associated piping rehabilitation/replacement | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 1,500 | - | - | - | 1,500 |
|  |  | Total | - | - | 1,500 | - | - | - | 1,500 |


|  | (\%) Durhat | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 271 | Bowmanville Water Supply Plant - Chlorine line replacement | Pre-Construction | - | - | - |  | - | 200 | 200 |
|  |  | Construction | - | - | - |  | - | 1,400 | 1,400 |
|  |  | Total | - | - | - |  | - | 1,600 | 1,600 |
| 272 | Newcastle Water Supply Plant - Chlorine line replacement | Pre-Construction | - | - | - |  | - | 200 | 200 |
|  |  | Construction | - | - | - |  | - | 1,400 | 1,400 |
|  |  | Total | - | - | - |  | - | 1,600 | 1,600 |
| 273 | Newtonville Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power | Pre-Construction | - | - | - |  | - | 600 | 600 |
|  |  | Construction | - | - | - |  | - | 2,000 | 2,000 |
|  |  | Total | - | - | - |  | - | 2,600 | 2,600 |
| 274 | Orono Water Supply System - upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch, Standby power and uninterrupted power supply UPS | Pre-Construction | - | - | - |  | - | 700 | 700 |
|  |  | Construction | - | - | - |  | - | 2,200 | 2,200 |
|  |  | Total | - | - | - |  | - | 2,900 | 2,900 |
| 275 | Mill St. Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power | Pre-Construction | - | 600 | - |  | - | - | 600 |
|  |  | Construction | - | - | - |  | - | 2,000 | 2,000 |
|  |  | Total | - | 600 | - |  | - | 2,000 | 2,600 |
| 276 | Sunderland Standpipe Water Storage Tank - Recoating | Pre-Construction | - | - | - |  | - | - | - |
|  |  | Construction | - | - | 800 |  | - | - | 800 |
|  |  | Total | - | - | 800 |  | - | - | 800 |
| 277 | Beaverton Water Supply Plant - upgrades Electrical | Pre-Construction | 250 | - | - |  | - | - | - |
|  | System Study, Grounding Study, Replacement of the | Construction | - | - | - |  | 2,600 | - | 2,600 |
|  | Motor Control Centre, Diesel transfer switch, Standby power, uninterrupted power supply (UPS) and Ultraviolet disinfection system | Total | 250 | - | - |  | 2,600 | - | 2,600 |


|  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |



|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 293 | Temporary Traffic Control Sign replacement Sunderland Depot |  | - | 2 | 2 | - | 2 | 4 | 10 |
| 294 | Trench box replacement - Sunderland Depot |  | - | - | - | - | - | 5 | 5 |
| 295 | Chlorine Analyzers - Plants East |  | - | - | - | 30 | - | 30 | 60 |
| 296 | Lab/Process Equipment - Plants East |  | - | - | 11 | - | - | - | 11 |
| 297 | Pump / Motor / Mixer Repair / Replacement - Plants East |  | 80 | 50 | 50 | - | - | - | 100 |
| 298 | Regulatory Instrumentation Replacement and Maintenance - Various Locations |  | 30 | 95 | 145 | 40 | 120 | 125 | 525 |
| 299 | SCADA / Communications / UPS - Plants East |  | - | 25 | - | - | - | - | 25 |
| 300 | SCADA Services - Maintenance - Plants East |  | - | 305 | 175 | 190 | 205 | 705 | 1,580 |
| 301 | Asphalt Content Ignition Furnace - Construction |  | - | - | - | - | - | 7 | 7 |
| 302 | Bar Pullout Tester - Construction |  | 4 | - | - | - | - | - | - |
| 303 | Bench Oven - Construction |  | 5 | - | - | - | - | - | - |
| 304 | Concrete End Grinder - Construction |  | 8 | - | - | - | - | - | - |
| 305 | Concrete Testing Equipment - Construction |  | - | - | - | - | - | 8 | 8 |
| 306 | Electronic Scale - Construction |  | - | - | - | - | - | 3 | 3 |



|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | $\begin{aligned} & \text { Fore } \\ & 2026 \end{aligned}$ | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 307 | Gyratory Compactor/Molds/Equipment - Construction |  | 22 | - | - | - | - | - | - |
| 308 | Lab Oven - Construction |  | - | - | - | - | - | 4 | 4 |
| 309 | Nuclear Densometer - Construction |  | 3 | - | 5 | - | - | - | 5 |
| 310 | Survey GPS Instrument - Construction |  | - | 10 | 10 | 10 | 10 | 52 | 92 |
| 311 | Survey Total Station Replacement - Construction |  | - | - | - | - | - | 39 | 39 |
| 312 | SCADA / Electrical / Communications / UPS - Plants North |  | - | 30 | - | - | - | - | 30 |
| 313 | Chlorine Analyzers - Plants Central |  | 30 | 30 | 30 | 30 | 29 | 60 | 179 |
| 314 | UPS Battery Replacements and Testing - Plants Central |  | 40 | - | - | - | - | - | - |
| 315 | Motor Control Centre - Plants Central - Harwood |  | - | 250 | - | - | - | - | 250 |
| 316 | SCADA Spare Parts/Lab Work Area - Oshawa WSP |  | - | 11 | 13 | - | - | - | 24 |
| 317 | WSP Post Chlorinator Replacement - Oshawa WSP |  | 25 | - | - | - | - | - | - |
| 318 | Replace Weigh Scale - Various Locations |  | 35 | - | - | - | - | - | - |
| 319 | Tank Liners - Whitby WSP |  | 30 | - | - | - | - | - | - |
| 320 | Flow Meter Replacements - WSP Pumping Stations |  | 80 | - | - | - | - | - | - |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 321 | Install Isolation Valve - Taunton Rd. Pumping Station |  | 50 | - | - | - | - | - | - |
| 322 | Teleloggers - Environmental Services Design |  | - | 5 | 5 | 5 | 5 | 20 | 40 |
| $323$ | Integrated Control Technology - Security Project Various Locations |  | 3 | - | - | - | - | - | - |
| Machinery and Equipment Subtotal |  |  | 3,565 | 9,167 | 10,599 | 7,105 | 8,771 | 39,524 | 75,166 |
| Information Technology |  |  |  |  |  |  |  |  |  |
| 324 | Replacement of wireless WAN frequency Replacement |  | - | 3,000 | - | - | - | - | 3,000 |
| 325 | Supervisory Control and Data Acquisition (SCADA) Plant North Improvements |  | - | - | - | 5,500 | - | - | 5,500 |
| 326 | Supervisory Control and Data Acquisition (SCADA) Plant South Improvements |  | - | 5,800 | - | - | - | - | 5,800 |
| 327 | Supervisory Control and Data Acquisition (SCADA) Plant East Improvements |  | - | - | 2,800 | - | - | - | 2,800 |
| 328 | Fuel Management System \& Infrastructure Replacement <br> - Various Locations |  | - | - | 216 | - | - | - | 216 |
| 329 | Standard Laptop |  | - | 2 | - | - | - | - | 2 |
| 330 | PLC \& Computer Scada Upgrades - Ajax WSP |  | - | 100 | - | - | - | - | 100 |
| 331 | Water SCADA - Hardware, Software and Communications - Various Locations |  | - | 935 | 161 | 100 | 273 | 272 | 1,741 |
| 332 | GIS Hardware (Monitors, backup devices and other) Data System Management |  | 5 | - | - | - | - | - | - |
| 333 P | Power Laptop |  | 15 | 22 | 2 | 6 | 6 | 7 | 43 |

## Appendix B: 2023-2032 Water Supply System Capital Forecast (\$,000's)

|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 334 | Computers \& Monitors Refresh - Financial Services |  | 149 | 228 | 175 | 272 | 225 | 1,004 | 1,904 |
| 335 | Scanner and Wide Format Black \& White Printer Construction |  | - | - | - | 22 | - | - | 22 |
| 336 | SCADA Computers - Plants Central |  | - | 10 | - | - | - | - | 10 |
| 337 | SCADA Workstation - Plants Central |  | - | 20 | 10 | - | - | - | 30 |
| 338 | Power Laptop (with Monitor) |  | 5 | 7 | - | - | - | - | 7 |
| 339 | Tablet - Environmental Services Design |  | - | 4 | 3 | 4 | 4 | 20 | 35 |
| 340 | Tablet |  | 6 | - | - | - | - | - | - |
| 341 | Standard Laptop |  | 1 | - | - | - | - | - | - |
| 342 | Power Laptop |  | 1 | - | - | - | - | - | - |
| Inform | mation Technology Subtotal |  | 182 | 10,128 | 3,367 | 5,904 | 508 | 1,303 | 21,210 |

## Appendix B: 2023-2032 Water Supply System Capital Forecast (\$,000's)

|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vehicles |  |  |  |  |  |  |  |  |  |
| 343 | 1/2 Ton Pick-up Truck - Various Locations |  | - | 134 | 28 | 28 | 56 | 84 | 330 |
| 344 | 1 Ton High Roof Van - Ajax Depot |  | - | 42 | - | - | - | - | 42 |
| 345 | Forklift - Various Locations |  | - | 25 | - | - | - | - | 25 |
| 346 | Tractor - Ajax Depot |  | - | 100 | - | - | - | - | 100 |
| 347 | Rubber tire roller compaction unit - Orono Depot |  | - | 20 | - | - | - | - | 20 |
| 348 | Asphalt Grinder Attachement (Skid Steer Loader) Oshawa/Whitby Depot |  | - | - | - | 8 | - | - | 8 |
| 349 | Hybrid PHEV SUV - Oshawa/Whitby Depot |  | 850 | - | - | - | - | - | - |
| 350 | Hybrid Van - Oshawa/Whitby Depot |  | - | 17 | - | - | - | - | 17 |
| 351 | Sidewalk Plow/Snowblower - Oshawa/Whitby Depot |  | - | - | - | - | - | 50 | 50 |
| 352 | Snow Blower for skid steer loader - Oshawa/Whitby Depot |  | - | 10 | - | - | - | - | 10 |
| 353 | Street Flusher - Oshawa/Whitby Depot |  | - | - | - | 117 | - | - | 117 |
| 354 | Street Sweeper attachment for Roadside Mower/Tractor Oshawa/Whitby Depot |  | - | 8 | - | - | - | - | 8 |
| 355 | Tandem Axle Truck - Oshawa/Whitby Depot |  | - | - | - | - | - | 83 | 83 |
| 356 | Vactor 2100 - Oshawa/Whitby Depot |  | 395 | - | - | - | - | - | - |



| Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 357 3/4 Ton Pick Up - Scugog Depot |  | - | 28 | - | - | - | - | 28 |
| 358 Backhoe with Breaker Attachment - Sunderland Depot |  | - | 125 | - | - | - | - | 125 |
| Vehicles Subtotal |  | 1,245 | 509 | 28 | 153 | 56 | 217 | 963 |
| Furniture and Fixtures |  |  |  |  |  |  |  |  |
| 359 Office Furniture - Various Locations |  | - | 8 | 7 | 1 | - | - | 16 |
| 360 Parts Cabinets - Ajax Depot |  | - | 16 | - | - | - | - | 16 |
| 361 Heavy Duty Steel Racking for Materials Storage Building Orono Depot |  | - | 65 | - | - | - | - | 65 |
| 362 Parts Cabinets - Oshawa/Whitby Depot |  | - | 108 | - | - | - | - | 108 |
| 363 Office Chairs - Financial Services |  | - | 1 | 1 | 1 | 1 | 4 | 8 |
| 364 A/V Equipment and Technology Upgrades - Various Locations |  | 10 | 10 | 10 | 10 | 10 | 20 | 60 |
| Furniture and Fixtures Subtotal |  | 10 | 208 | 18 | 12 | 11 | 24 | 273 |


|  | Durham Budaet | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Allowances \& Other Provisions |  |  |  |  |  |  |  |  |  |
| 365 | Regional Water Supply Master Planning Study for the Regional Official Plan Review |  | 250 | - | - | - | - | 800 | 800 |
| 366 | Emergency Planning Updating Requirements |  | - | 100 | - | - | - | - | 100 |
| 367 | Asset Condition Assessments - Reports for Vertical Assets |  | 100 | - | 290 | 100 | 300 | 1,396 | 2,086 |
| 368 | Asset Condition Assessment/ investigation for transmission pipes |  | 182 | 67 | 245 | 221 | 227 | 1,020 | 1,780 |
| 369 | Master planning energy management |  | - | 200 | - | - | 200 | 200 | 600 |
| 370 | Allowance for acquisition of easements |  | 100 | 100 | 100 | 100 | 100 | 500 | 900 |
| 371 | Allowance for engineering studies |  | 150 | 150 | 300 | 150 | 300 | 1,050 | 1,950 |
| 372 | Climate Change Strategy Allowance |  | - | 150 | - | - | - | - | 150 |
| 373 | Allowance for Vulnerability Assessments for Water Supply Plants |  | - | 350 | - | 350 | - | - | 700 |
| 374 | Allowance for CTC Source Water Protection Plan related to the Lake Ontario Collaborative |  | - | 500 | 300 | 400 | 1,500 | 2,200 | 4,900 |
| 375 | Preliminary engineering |  | 100 | 100 | 100 | 100 | 100 | 500 | 900 |
| 376 | Allowance for sundry extensions as per Council policy Various |  | 15 | 15 | 15 | 15 | 15 | 75 | 135 |
| 377 | Allowance for unknown requirements |  | 100 | 100 | 100 | 100 | 100 | 500 | 900 |
| 378 | Allowance for land severance review and drawing requirements |  | 100 | 100 | 100 | 100 | 100 | 500 | 900 |

## Appendix B: 2023-2032 Water Supply System Capital Forecast (\$,000's)

|  | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | $2026{ }^{\text {Fore }}$ | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 379 Allowance for Regional share for works in conjunction with residential subdivision development |  | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 | 18,000 |
| 380 Allowance for Regional share for works in conjunction with non-residential development |  | 500 | 500 | 500 | 500 | 500 | 2,500 | 4,500 |
| 381 Well interference works |  | 400 | 400 | 400 | 400 | 1,000 | 5,000 | 7,200 |
| Allowances \& Other Provisions Subtotal |  | 3,997 | 4,832 | 4,450 | 4,536 | 6,442 | 26,241 | 46,501 |
| Water Supply System Subtotal |  | 140,784 | 232,267 | 317,098 | 344,839 | 318,690 | 557,865 | 1,770,759 |
| Total <br> Water Supply System |  | 140,784 | 232,267 | 317,098 | 344,839 | 318,690 | 557,865 | 1,770,759 |

* Rows and columns may not add due to rounding
* Pre-construction capital financing includes expenditures for land purchases, utility relocates, preliminary studies, design, etc.
${ }^{* * *}$ Projects with regularly recurring expenditures include allowances, machinery and equipment, information technology, vehicles and furniture and fixtures, etc. do not include separate pre-construction and construction capital financing
**** Appendix B includes financing of the following development charge shortfalls as follows:

|  | 2023 | 2024 | 2025 | 2026 | 2027 | 2028-2032 | and Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DC Shortfall |  |  |  |  |  |  |  |
| Residential DC Shortfall |  | 23,652 | 56,018 | 152,739 | 67,608 | 86,065 | 386,082 |
| Commercial DC Shortfall | - |  | - | 6,000 | - |  | 6,000 |
| Institutional DC Shortfall | 130 | 186 | 250 | 898 | 176 | 418 | 2,058 |
| Industrial DC Shortfall | 11,327 | 8,636 | 13,802 | 65,173 | 2,998 | 18,365 | 120,301 |
| Total DC Shortfall | 11,457 | 32,474 | 70,070 | 224,810 | 70,782 | 104,848 | 514,441 |
| Shortfall Financing Source |  |  |  |  |  |  |  |
| lization Reserve Fund - Water | - | - | - | 61,627 | 29,025 | 16,396 | 107,048 |
| Debenture - DC Funded | - | 23,652 | 56,018 | 156,739 | 32,570 | 25,054 | 294,033 |
| User Rate | 11,457 | 8,822 | 14,052 | 6,444 | 9,187 | 63,398 | 113,360 |
| Total Funding | 11,457 | 32,474 | 70,070 | 224,810 | 70,782 | 104,848 | 514,441 |

## Appendix C: 2023 Sanitary Sewerage System Capital Projectis (s.000's)

| Durham Budget | Quantity | New / Replacement | 2023 Proposed Financing |  |  |  |  |  |  |  |  | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | $\begin{aligned} & \text { Forecast } \\ & 2024-2032 \end{aligned}$ | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Other | Reserve/ Reserve Funds | Industrial DCs | Institutional DCs | Commercial DCs | Residential DCs | Subsidy /Grant | Debenture | User Rate |  |  |  |  |
| Sanitary Sewerage System |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Linear Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 R.R. 2A (Centre St). from King St. to Brock St. West, Oshawa | - | - | - | - | - | - | - | - | - | - | 400 | 400 | 1,485 | - | 1,885 |
| 3 R.R. 16 ( Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa | - | - | - | - | - | - | - | - | - | - | 225 | 225 | 200 | 1,450 | 1,875 |
| 16 City of Oshawa Road Program | - | - | - | - | - | - | - | - | - | - | 570 | 570 | - | 9,900 | 10,470 |
| 17 Municipality of Clarington Road Program | - | - | - | - | - | - | - | - | - | - | 275 | 275 | 25 | 2,700 | 3,000 |
| 18 Township of Scugog Road Program | - | - | - | - | - | - | - | - | - | - | 200 | 200 | - | 675 | 875 |
| 19 Township of Uxbridge Road Program | - | - | - | - | - | - | - | - | - | - | 225 | 225 | - | 3,060 | 3,285 |
| Allowance for unknown sanitary sewerage <br> 21 requirements in conjunction with area municipality road programs in various locations | - | - | - | - | - | - | - | - | - | - | 200 | 200 | - | 1,800 | 2,000 |
| Sanitary sewerage works to rectify identified 24 system deficiencies independent of road programs in various locations | - | - | - | - | - | - | - | - | - | - | 400 | 400 | - | 5,850 | 6,250 |
| 25 <br> Rehabilitation of existing sanitary sewers in various locations | - | - | - | 457 | - | - | - | - | - | - | - | 457 | - | 7,828 | 8,285 |
| Trunk Sanitary Sewer Rehabilitation from 27 Lord Elgin Park to Kingston Rd. (Highway No. 2), Ajax | - | - | - | - | - | - | - | - | - | - | 250 | 250 | - | 11,000 | 11,250 |


| Durham Budget | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | 2023 Proposed Financing |  |  | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | Forecast <br> 2024-2032 | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Institutional DCs | $\begin{aligned} & \text { Commercial } \\ & \text { DCs } \end{aligned}$ | Residential DCs |  |  |  |  |  |  |  |
| Replacement of the trunk sanitary sewer <br> 28 from Harwood Ave. South and Edward St. through Lord Elgin Park to the intersection of Chadwick Dr. and Adams Dr., Ajax | - | - | - | 1,600 | - | - | - | - | - | - | - | 1,600 | 1,705 | - | 3,305 |
| 29 <br> Replacement of sanitary sewer between Birch Court and Glynn Rd., Ajax | - | - | - | - | - | - | - | - | - | - | 150 | 150 | - | 500 | 650 |
| 30 <br> Replacement of the sanitary sewer on High St. from Mary St. to Walnut St., Whitby | - | - | - | - | - | - | - | - | - | - | 175 | 175 | 460 | - | 635 |
| Replacement of sanitary sewer on Donovan 31 Cres. from Walton Blvd. to 30 m east of Walton Blvd., Whitby | - | - | - | - | - | - | - | - | - | - | 215 | 215 | - | 430 | 645 |
| 38 <br> Replacement of sanitary sewer on Olive Ave from Simcoe St. to Drew St., Oshawa | - | - | - | - | - | - | - | - | - | - | 260 | 260 | 1,605 | - | 1,865 |
| $41 \begin{aligned} & \text { Replacement of sanitary sewer on Conant } \\ & \text { St. from Myers Rd. to Nelson St., Oshawa }\end{aligned}$ | - | - | - | 150 | - | - | - | - | - | - | - | 150 | - | 390 | 540 |
| 44 <br> Replacement of sanitary sewer on Simcoe St. from Metcalf St. to Quebec St., Oshawa | - | - | - | 150 | - | - | - | - | - | - | - | 150 | 925 | - | 1,075 |
| 46 <br> Replacement of sanitary sewer on Mary St. from Rossland Rd. to Robert St., Oshawa | - | - | - | 2,150 | - | - | - | - | - | - | - | 2,150 | - | - | 2,150 |
| Replacement of forcemain on Wilmot Creek 47 easement from Cobbledick Rd. to Toronto St., Newcastle | - | - | - | 1,300 | - | - | - | - | - | - | - | 1,300 | 1,406 | - | 2,706 |
| 48 <br> Replacement of sanitary sewer on First Ave. from Brock St. to Dominion St., Uxbridge | - | - | - | 150 | - | - | - | - | - | - | - | 150 | 100 | 330 | 580 |
| $\begin{aligned} & 49 \begin{array}{l} \text { Evaluation of trunk sanitary sewers/gravity } \\ \text { sewers at creek crossings } \end{array} \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | 75 | 75 | 75 | 225 | 375 |
| 52 <br> Sanitary Sewer on Meadow St. from Avalon St. to Manor Dr., Oshawa | - | - | - | - | - | - | - | - | - | - | 100 | 100 | - | 260 | 360 |


| Durham Budget | Quantity | New / Replacement | Other Reserve/ <br> Reserve <br> Funds  |  | Industrial DCs | 2023 Proposed Financing |  |  | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | $\begin{aligned} & \text { Forecast } \\ & 2024-2032 \end{aligned}$ | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Institutional DCs | $\begin{gathered} \text { Commercial } \\ \text { DCs } \end{gathered}$ | $\begin{aligned} & \text { Residential } \\ & \text { DCs } \end{aligned}$ |  |  |  |  |  |  |  |
| Trunk Sanitary Sewer on Kingston Rd. 57 (Highway No. 2) from east of Harwood Ave. to east of Galea Dr., Ajax | - | - | - | - |  | - | - | 522 | 8,376 | - | - | 2,452 | 11,350 | 350 | - | 11,700 |
| Thickson Rd. Sub-Trunk sanitary sewer from 59 Glengowan St. to Conlin Rd., Whitby (Region's share only) | - | - | - | - | - | - | 126 | 2,021 | - | - | 591 | 2,738 | 762 | - | 3,500 |
| West Brooklin Trunk Sanitary Sewer from 62 west of Cochrane St. to east of Highway No. 12, Whitby (Region's share only) | - | - | - | - | - | - | 184 | 2,952 | - | - | 864 | 4,000 | 9,945 | 6,600 | 20,545 |
| Sanitary Sewer on Thornton Rd. from Conlin 70 Rd. within the Northwood Employment Area, Oshawa | - | - | - | - | - | - | 74 | 1,181 | - | - | 346 | 1,601 | 2,450 | - | 4,051 |
| Twinning of northwest branch of Harmony 74 Creek Sub-Trunk Sanitary Sewer from Central Park Blvd. N. \& Hillcroft St. to Beatrice St., Oshawa | - | - | - | - | - | - | - | - | - | - | 150 | 150 | - | 2,520 | 2,670 |
| Courtice Trunk Sanitary Sewer - Trulls Rd. 81 from Bloor St. to future Adelaide Ave., Courtice | - | - | - | - | - | - | 138 | 2,214 | - | - | 648 | 3,000 | - | 52,700 | 55,700 |
| Courtice Trunk Sanitary Sewer - Adelaide 82 Ave. from Trulls Rd. to Townline Rd., Courtice | - | - | - | - | 1,874 | - | 405 | 6,494 | - | - | 26 | 8,799 | - | 53,400 | 62,199 |
| Southeast Courtice Sub-Trunk Sanitary <br> 85 Sewer on future mid-block road from Trulls Rd. to Courtice Rd. \& Courtice Rd. from midblock to Bloor St., Courtice | - | - | - | - | - | - | 244 | 3,911 | - | - | 1,145 | 5,300 | - | - | 5,300 |
| Linear Infrastucture Subtotal |  |  | - | 5,957 | 1,874 | - | 1,693 | 27,149 | - | - | 9,942 | 46,615 | 21,493 | 161,618 | 229,726 |


| Durham Budget | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | 2023 Proposed Financing |  |  | Subsidy /Grant | Debenture | User Rate | $\begin{gathered} 2023 \\ \text { Proposed } \\ \text { Budget } \end{gathered}$ | ProposedFundingPrior to2023 | Forecast 2024-2032 | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Institutional DCs | Commercial DCs DCs | $\begin{aligned} & \text { Residential } \\ & \text { DCs } \end{aligned}$ |  |  |  |  |  |  |  |
| Building and Structures |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Harmony Creek Sanitary Sewage Pumping 101 Station - expansion and forcemain twinning, Oshawa | - |  | - | - | - | - | 28 | 443 | - | - | 130 | 601 | - | 48,100 | 48,701 |
| Expansion of the Conlin Rd. Sanitary <br> 102 Sewage Pumping Station and twinning of the forcemain, Oshawa | - |  | - | - | - | - | 115 | 1,845 | - | - | 540 | 2,500 | 2,802 | 70,700 | 76,002 |
| $106 \begin{aligned} & \text { Expansion of Courtice Water Pollution } \\ & \text { Control Plant from } 68 \text { MLD to } 136 \text { MLD }\end{aligned}$ | - |  | - | - | - | - | 26 | 168 | - | - | 806 | 1,000 | - | 153,400 | 154,400 |
| 109 <br> Newcastle Water Pollution Control Plant Capacity Re-rating from 4 MLD to 7 MLD | - |  | - | - | - | - | 300 | 1,913 | - | - | 1,416 | 3,629 | 19,154 | - | 22,783 |
| 115 Sunderland Water Pollution Control Plant Lagoon System, Brock | - |  | - | - | - | - | 83 | 527 | - | - | 1,390 | 2,000 | 1,000 | 11,000 | 14,000 |
| 116 River St. Sanitary Sewage Pumping Station expansion, Brock | - |  | - | - | - | - | 50 | 316 | - | - | 834 | 1,200 | - | 4,600 | 5,800 |
| 117 Cannington Water Pollution Control Plant Lagoon System, Brock | - |  | - | - | - | - | 83 | 527 | - | - | 1,390 | 2,000 | 1,074 | 11,500 | 14,574 |
| 118 Laidlaw St. Sanitary Sewage Pumping Station expansion, Brock | - |  | - | - | - | - | 42 | 264 | - | - | 695 | 1,001 | - | 5,200 | 6,201 |
| $125 \begin{aligned} & \text { Depot Rationalization - Ajax Depot } \\ & \text { Expansion }\end{aligned}$ | - | New | - | - | - | - | - | - | - | 1,667 | - | 1,667 | - | - | 1,667 |
| 126 Building J Roof Replacement - Corbett Creek WPCP | - | Replacement | - | - | - | - | - | - | - | - | 82 | 82 | - | - | 82 |
| 128 Access Ladder Repair/Replacement Project Various Locations | - | Replacement | - | - | - | - | - | - | - | - | 641 | 641 | - | - | 641 |
| 129 Replacement Fire System - Vesda - Duffin Creek WPCP | - | Replacement | 623 | - | - | - | - | - | - | - | 177 | 800 | - | - | 800 |


| Durham | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | 2023 Proposed Financing |  |  | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed <br> Funding <br> Prior to <br> 2023 | $\begin{aligned} & \text { Forecast } \\ & \text { 2024-2032 } \end{aligned}$ | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Institutional DCs | $\begin{gathered} \text { Commercial } \\ \text { DCs } \end{gathered}$ | $\begin{aligned} & \text { Residential } \\ & \text { DCs } \end{aligned}$ |  |  |  |  |  |  |  |
| 130 New Furniture in Office and Lab - Expansion . Environmental Lab | - | Replacement | 11 | - | - | - | - | - | - | - | 11 | 22 | - | - | 22 |
| 136 Roof Replacement on Vehicle Storage Bays Orono Depot | - | Replacement | - | - | - | - | - | - | - | - | 27 | 27 | - | - | 27 |
| 139 Replacement of Fire System Oshawa/Whitby Depot | - | Replacement | - | - | - | - | - | - | - | - | 67 | 67 | - | - | 67 |
| $141 \begin{aligned} & \text { Depot Rationalization - New Oshawa/Whitby } \\ & \text { Depot }\end{aligned}$ | - | New | - | - | - | - | - | - | - | 12,667 | - | 12,667 | - | - | 12,667 |
| Repairs and Epoxy Coat Fleet Bay Concrete 143 Floors \& Repairs to Floor Drains in Fleet Bays - Scugog Depot | - | Replacement | - | - | - | - | - | - | - | - | 7 | 7 | - | - | 7 |
| 148 Widening of Existing Canopy Entrance Sunderland Depot | - | Replacement | - | - | - | - | - | - | - | - | 8 | 8 | - | - | 8 |
| 149 Install Perimeter Fence - Pumping Stations Central - Cochrane St. SPS | - | Replacement | - | - | - | - | - | - | - | - | 50 | 50 | - | - | 50 |
| 150 Renovation \& Optimization - 101 Consumers | - | Replacement | - | 442 | - | - | - | - | - | - | - | 442 | - | - | 442 |
| 151 Access Ladder Repair/Replacement Project Duffin Creek WPCP | - | Replacement | 454 | - | - | - | - | - | - | - | 128 | 582 | - | - | 582 |
| 152 <br> Depot Rationalization - New Sunderland Depot | - | New | - | - | - | - | - | - | - | 1,333 | - | 1,333 | - | - | 1,333 |
| Buildings \& Structures Subtotal |  |  | 1,088 | 442 | - | - | 727 | 6,003 | - | 15,667 | 8,399 | 32,325 | 24,030 | 304,500 | 360,856 |

## Appendix C: 2023 Sanitary Sewerage System Capital Projects ( $\$, 000{ }^{\prime}$ 's)

| Durham Budget | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | 2023 Proposed Financing |  |  | Subsidy /Grant | Debenture | User Rate | $\begin{gathered} 2023 \\ \text { Proposed } \\ \text { Budget } \end{gathered}$ | Proposed Funding Prior to 2023 | $\begin{array}{r} \text { Forecast } \\ 2024-2032 \end{array}$ | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Institutional DCs | $\begin{aligned} & \text { Commercial } \\ & \text { DCs } \end{aligned}$ | $\begin{aligned} & \text { Residential } \\ & \text { DCs } \end{aligned}$ |  |  |  |  |  |  |  |
| Machinery \& Equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Central Duffin Creek Metering Building at 153 Valleyfarm Road and Finch Avenue meter replacement, Pickering | - |  | - | - | - | - | - | - | - | - | 100 | 100 | - | 560 | 660 |
| Duffin Creek Water Pollution Control Plant - <br> 154 Digester mixing improvements and Motor Control Centre Replacement, Pickering | - |  | 15,830 | - | - | - | - | - | - | - | 5,620 | 21,450 | 19,400 | 23,850 | 64,700 |
| Duffin Creek Water Pollution Control Plant 156 Remedial works and improvements in various locations throughout the plant | - |  | 22,000 | - | - | - | - | - | - | - | 5,500 | 27,500 | 16,500 | - | 44,000 |
| Duffin Creek Water Pollution Control Plant 157 Ammonia-based aeration control (ABAC) for Stage 1, 2 and 3 | - |  | 800 | 200 | - | - | - | - | - | - | - | 1,000 | - | 5,000 | 6,000 |
| Michael Blvd. Sanitary Sewerage Pumping <br> 164 Station - replacement of the Motor Control Centre (MCC) and pump, Whitby | - |  | - | 200 | - | - | - | - | - | - | - | 200 | 400 | 2,000 | 2,600 |
| Hanover Sanitary Sewage Pumping Station 165 the replacement of pumps and forcemain, Whitby | - |  | - | 100 | - | - | - | - | - | - | - | 100 | 700 | - | 800 |
| 167 Simcoe St. Sanitary Sewerage Pumping Station - Chemical Pump addition, Oshawa | - |  | - | - | - | - | - | - | - | - | 250 | 250 | - | 575 | 825 |
| Lake Simcoe Water Pollution Control Plant 173 Diffused Air System replacement and associated system upgrades | - |  | - | 3,750 | - | - | - | - | - | - | 3,300 | 7,050 | 8,150 | - | 15,200 |
| 174 Lake Simcoe Water Pollution Control Plant Replacement of Clarifier mechanisms | - |  | - | 100 | - | - | - | - | - | - | - | 100 | 420 | - | 520 |
| Lake Simcoe Water Pollution Control Plant <br> 176 and associated sanitary sewerage pumping stations - PLC and SCADA system upgrades | - |  | - | 500 | - | - | - | - | - | - | - | 500 | 600 | 6,000 | 7,100 |


| ( Durham ¢ |  |  |  |  |  | 2023 | Proposed Fina | cing |  |  |  |  | Proposed |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (2) Bus | Quantity | Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | $\begin{aligned} & \text { Institutional } \\ & \text { DCs } \end{aligned}$ | $\begin{aligned} & \text { Commercial } \\ & \text { DCs } \end{aligned}$ | $\begin{gathered} \text { Residential } \\ \text { DCs } \end{gathered}$ | Subsidy /Grant | Debenture | User Rate | Proposed Budget | $\begin{aligned} & \text { Funding } \\ & \text { Prior to } \\ & 2023 \end{aligned}$ | $\begin{aligned} & \text { Forecast } \\ & 2024-2032 \end{aligned}$ | Project to 2032 |
| 179 <br> Emergency Generator Fuel Tank Compliance upgrades Phase 3 and 5 | - |  | - | - | - | - | - | - | - | - | 1,700 | 1,700 | 3,364 | - | 5,064 |
| 181 Bar Pullout Tester - Construction | 1 | New | - | - | - | - | - | - | - | - | 4 | 4 | - | - | 4 |
| 182 Bench Oven - Construction | 1 | New | - | - | - | - | - | - | - | - | 5 | 5 | - | - | 5 |
| 183 Concrete End Grinder - Construction | 1 | New | - | - | - | - | - | - | - | - | 8 | 8 | - | - | 8 |
| 186 <br> Gyratory Compactor/Molds/Equipment Construction | 1 | New | - | - | - | - | - | - | - | - | 22 | 22 | - | - | 22 |
| 188 Nuclear Densometer - Construction | 1 | Replacement | - | - | - | - | - | - | - | - | 3 | 3 | - | - | 3 |
| $195 \begin{aligned} & \text { Chemical Pump Replacement - Various } \\ & \text { Locations }\end{aligned}$ | 2 | Replacement | - | - | - | - | - | - | - | - | 18 | 18 | - | - | 18 |
| 199 Grit Blower Rebuild - Courtice WPCP | 1 | Replacement | - | - | - | - | - | - | - | - | 10 | 10 | - | - | 10 |
| 203 <br> Analytical Balance Bench Scale - Duffin Creek WPCP | 1 | New | 12 | - | - | - | - | - | - | - | 3 | 15 | - | - | 15 |
| 204 Auto Sampler Replacement - Duffin Creek WPCP | 1 | Replacement | 20 | - | - | - | - | - | - | - | 5 | 25 | - | - | 25 |
| 206 BAS Server Replacement - Duffin Creek WPCP | 1 | Replacement | 58 | - | - | - | - | - | - | - | 17 | 75 | - | - | 75 |
| 211 Chain and Flyght Replacement - Stage 3 Secondary Clarifier - Duffin Creek WPCP | 1 | Replacement | 81 | - | - | - | - | - | - | - | 19 | 100 | - | - | 100 |
| 215 <br> Dock Leveler Replacement - Duffin Creek WPCP | 1 | Replacement | 23 | - | - | - | - | - | - | - | 7 | 30 | - | - | 30 |


| Durham | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | 2023 Proposed Financing |  |  | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | $\begin{aligned} & \text { Forecast } \\ & \text { 2024-2032 } \end{aligned}$ | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Institutional DCs | Commercial DCs | $\begin{aligned} & \text { Residential } \\ & \text { DCs } \end{aligned}$ |  |  |  |  |  |  |  |
| 217 DR3900 Spectrophotometer - Duffin Creek | 1 | New | 12 | - | - | - | - | - | - | - | 3 | 15 | - | - | 15 |
| 224 Integrated Control Technology - Security <br> Project - Various Locations | 6 | New | - | - | - | - | - | - | - | - | 311 | 311 | - | - | 311 |
| $230 \begin{aligned} & \text { Polymer Building PRAP Network Upgrades - } \\ & \text { Duffin Creek WPCP }\end{aligned}$ | 1 | Replacement | 31 | - | - | - | - | - | - | - | 9 | 40 | - | - | 40 |
| 251 Secondary Clarifier (Circular) Gearbox - Duffin Creek WPCP | 2 | Replacement | 195 | - | - | - | - | - | - | - | 45 | 240 | - | - | 240 |
| 263 <br> Biochemical Oxygen Demand (BOD) Incubators - Environmental Lab | 2 | Replacement | 20 | - | - | - | - | - | - | - | 20 | 40 | - | - | 40 |
| $264 \begin{aligned} & \text { Biological Oxygen Demand Analyzer - } \\ & \text { Environmental Lab }\end{aligned}$ | 1 | Replacement | 6 | - | - | - | - | - | - | - | 5 | 11 | - | - | 11 |
| 267 Centrifuge (Inorganics) - Environmental Lab | 1 | Replacement | 6 | - | - | - | - | - | - | - | 6 | 12 | - | - | 12 |
| 269 Digestion Block with Controllers Environmental Lab | 4 | Replacement | 40 | - | - | - | - | - | - | - | 40 | 80 | - | - | 80 |
| 270 Dishwasher - Environmental Lab | 1 | Replacement | 5 | - | - | - | - | - | - | - | 5 | 10 | - | - | 10 |
| 274 <br> Gas Chromatograph / Mass Spectrometer / MS (Extractables) - Environmental Lab | 1 | Replacement | - | 300 | - | - | - | - | - | - | - | 300 | - | - | 300 |
| 282 Microscope - Environmental Lab | 1 | Replacement | - | 75 | - | - | - | - | - | - | - | 75 | - | - | 75 |
| 290 Solids Manifold - Environmental Lab | 2 | Replacement | 10 | - | - | - | - | - | - | - | 10 | 20 | - | - | 20 |
| 295 Water Purification System - Environmental | 1 | Replacement | 13 | - | - | - | - | - | - | - | 12 | 25 | - | - | 25 |


| Durham Budget | Quantity | New / Replacement | Other | 2023 Proposed Financing |  |  |  |  |  |  |  | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | Forecast 2024-2032 | Total Project to 2032 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Reserve/ Reserve Funds | Industrial DCs | Institutional DCs | $\begin{aligned} & \text { Commercial } \\ & \text { DCs } \end{aligned}$ | Residential DCs | Subsidy /Grant | Debenture | User Rate |  |  |  |  |
| 298 RAS Piping - Nonquon WPCP | 1 | New | - | - | - | - | - | - | - | - | 95 | 95 | - | - | 95 |
| 302 Backflow Preventer Device Replacement - <br> Port Darlington WPCP | 1 | Replacement | - | - | - | - | - | - | - | - | 29 | 29 | - | - | 29 |
| 309 Sodium Bisulfite HVAC - Port Darlington WPCP | 1 | Replacement | - | - | - | - | - | - | - | - | 135 | 135 | - | - | 135 |
| 318 Install AC for Blower Room - Uxbridge Brook WPCP | 1 | New | - | - | - | - | - | - | - | - | 50 | 50 | - | - | 50 |
| 321 <br> Electrical Equipment Replacements - WPCP <br> Pumping Stations | 1 | Replacement | - | - | - | - | - | - | - | - | 50 | 50 | - | - | 50 |
| 324 Integrated Control Technology - Security Project - Duffin Creek WPCP | 1 | New | 19 | - | - | - | - | - | - | - | 6 | 25 | - | - | 25 |
| Machinery \& Equipment Subtotal |  |  | 39,181 | 5,225 | - | - | - | - | - | - | 17,422 | 61,829 | 49,534 | 37,985 | 149,347 |
| Information Technology Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SCADA System Master Plan for the sanitary 325 sewage pumping stations and implementation requirements | - |  | - | - | - | - | 8 | 136 | - | - | 356 | 500 | - | 2,800 | 3,300 |
| 326 Standard Laptop | 2 | New | - | - | - | - | - | - | - | - | 1 | 1 | - | - | 1 |
| 327 Power Laptop | 12 | New | - | - | - | - | - | - | - | - | 13 | 13 | - | - | 13 |
| 330 GIS Hardware (Monitors, Backup Devices and Other) - Data System Management | 1 | Replacement | - | - | - | - | - | - | - | - | 5 | 5 | - | - | 5 |
| 331 Tablet | 1 | New | - | - | - | - | - | - | - | - | 2 | 2 | - | - | 2 |
| 331 Tablet | 1 | Replacement | - | - | - | - | - | - | - | - | 4 | 4 | - | - | 4 |


| Appendix C: 2023 Sanitary Sewerage System Capital Projects (\$,000's) <br> Provides financing details for capital projects proposed in 2023. See Appendix D for the comprehensive 2023 capital budget and 2024-2032 forecal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (2) Durham | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | $\begin{aligned} & 2023 \\ & \text { Institutional } \\ & \text { DCs } \end{aligned}$ | Proposed Fin <br> Commercial DCs | cing <br> Residential DCs | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | $\begin{aligned} & \text { Forecast } \\ & 2024-2032 \end{aligned}$ | Total Project to 2032 |
| 333 SCADA Programming Software Upgrade <br> (ifix) - Duffin Creek WPCP | 1 | Replacement | 39 | - | - | - | - | - | - | - | 11 | 50 | - | - | 50 |
| 334 SCADA Workstations (Desktops) - Duffin Creek WPCP | 1 | New | 8 | - | - | - | - | - | - | - | 2 | 10 | - | - | 10 |
| 335 Barcode Printers - Environmental Lab | 4 | Replacement | 4 | - | - | - | - | - | - | - | 4 | 8 | - | - | 8 |
| 337 LIMS Computer System - Environmental Lab | 1 | Replacement | - | 100 | - | - | - | - | - | - | - | 100 | - | - | 100 |
| $339 \begin{aligned} & \text { Power Laptop (with Monitor) - Various } \\ & \text { Locations } \end{aligned}$ | 3 | New | - | - | - | - | - | - | - | - | 5 | 5 | - | - | 5 |
| 341 <br> Computers \& Monitors Refresh - Financial Services | 1 | Replacement | - | - | - | - | - | - | - | - | 265 | 265 | - | - | 265 |
| Information Technology Infrastructure Subtotal |  |  | 51 | 100 | - | - | 8 | 136 | - | - | 668 | 963 | - | 2,800 | 3,763 |
| Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 357 Vactor 2100-Oshawa/Whitby Depot | 1 | New | - | - | - | - | - | - | - | - | 395 | 395 | - | - | 395 |
| Vehicles Subtotal |  |  | - | - | - | - | - | - | - | - | 395 | 395 | - | - | 395 |
| Furniture \& Fixtures |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 360 A/V Equipment and Technology Upgrades Various Locations | 1 | New | - | - | - | - | - | - | - | - | 10 | 10 | - | - | 10 |
| Furniture \& Fixtures Subtotal |  |  | - | - | - | - | - | - | - | - | 10 | 10 | - | - | 10 |


| D Durham * |  |  |  |  |  |  | Proposed Fina | cing |  |  |  |  | Proposed |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | Institutional DCs | $\begin{gathered} \text { Commercial } \\ \text { DCs } \end{gathered}$ | $\begin{aligned} & \text { Residential } \\ & \text { DCs } \end{aligned}$ | Subsidy /Grant | Debenture | User Rate | Proposed Budget | Funding <br> Prior to <br> 2023 | Forecast 2024-2032 | $\begin{aligned} & \text { Project to } \\ & 2032 \end{aligned}$ |
| Allowances \& Other Provisions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 366 Regional Sewage Master Planning Study for the Regional Official Plan Review | - |  | - | - | - | - | 27 | 443 | - | - | 130 | 600 | 800 | 800 | 2,200 |
| 367 Biosolids Master Plan | - |  | - | - | - | - | 23 | 369 | - | - | 108 | 500 | - | 500 | 1,000 |
| 368 <br> York Durham Sanitary Sewerage Master Plan | - |  | 369 | - | - | - | - | - | - | - | 131 | 500 | - | 500 | 1,000 |
| 371 <br> Asset Condition Assessments - Reports for the Vertical Assets | - |  | - | 300 | - | - | - | - | - | - | - | 300 | 1,503 | 2,400 | 4,203 |
| 375 Allowance for acquisition of easements | - |  | - | - | - | - | - | - | - | - | 100 | 100 | - | 900 | 1,000 |
| 376 Allowance for engineering studies | - |  | - | - | - | - | - | - | - | - | 150 | 150 | - | 1,350 | 1,500 |
| 378 Preliminary engineering | - |  | - | - | - | - | - | - | - | - | 100 | 100 | - | 900 | 1,000 |
| 379 Allowance for sundry extensions as per Council policy | - |  | - | - | - | - | - | - | - | - | 15 | 15 | - | 135 | 150 |
| 380 Allowance for unknown requirements | - |  | - | - | - | - | - | - | - | - | 100 | 100 | - | 900 | 1,000 |
| 381 <br> Allowance for land severance review and drawing requirements | - |  | - | - | - | - | - | - | - | - | 100 | 100 | - | 900 | 1,000 |
| Allowance for Regional share for works in 382 conjunction with residential subdivision development | - |  | - | - | - | - | 92 | 1,476 | - | - | 432 | 2,000 | - | 18,000 | 20,000 |


| Appendix C: 2023 Sanitary Sewerage System Capital Projects ( $\$, 000$ 's) <br> Provides financing details for capital projects proposed in 2023. See Appendix D for the comprehensive 2023 capital budget and $2024-2032$ forec |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (2) Durham | Quantity | New / Replacement | Other | Reserve/ Reserve Funds | Industrial DCs | $\begin{array}{r} 202 \\ \text { Institutional } \\ \text { DCs } \end{array}$ | Proposed Fina <br> Commercial DCs | cing <br> Residential DCs | Subsidy /Grant | Debenture | User Rate | 2023 <br> Proposed Budget | Proposed Funding Prior to 2023 | $\begin{aligned} & \text { Forecast } \\ & \text { 2024-2032 } \end{aligned}$ | Total Project to 2032 |
| 383 <br> Allowance for Regional share for works in conjunction with non-residential development | - |  | - | - | - | - | 23 | 369 | - | - | 108 | 500 | - | 4,500 | 5,000 |
| 384 Allowance for intensification | - |  | - | - | - | - | 16 | 258 | - | - | 76 | 350 | - | 3,150 | 3,500 |
| Allowances \& Other Provisions Subtotal |  |  | 369 | 300 | - | - | 181 | 2,915 | - | - | 1,550 | 5,315 | 2,303 | 34,935 | 42,553 |
| Sanitary Sewer System Subtotal |  |  | 40,691 | 12,024 | 1,874 | - | 2,609 | 36,203 | - | 15,667 | 38,384 | 147,452 | 97,360 | 541,838 | 786,650 |
| Total <br> Sanitary Sewerage System |  |  | 40,691 | 12,024 | 1,874 | - | 2,609 | 36,203 | - | 15,667 | 38,384 | 147,452 | 97,360 | 541,838 | 786,650 |

Rows and columns may not add due to rounding
Appendix C includes Other financing from York Recovery as follows:
$\begin{array}{lll} & \begin{array}{ll}\text { Other } \\ \text { Recovery From York } \\ \text { Total } \\ \text { Total Other Financing } \\ & 40,691 \\ 40,691\end{array}\end{array}$

* Appendix C includes Reserve financing as follows.
$\begin{array}{lll}\text { Asset Management Reserve Fund - Suwer } & \text { Reser } & 2023 \\ 11,107\end{array}$
$\begin{array}{lr}\text { Asset Management Reserve Fund - Sewer } & \text { 11,107 } \\ \text { Rate Stabilization Reserve Fund - Sewer } & 442\end{array}$
Pre-Sericicing of Employment Lands Reserve Fund - Sew


Appendix C includes financing of the following development charge shortfalls as follows:
DC Shortall ${ }^{2023}$

Shortfall Financing Source
Rate Stabilization Reserve Fund_Sewer
Debenture - DC Funded

| User Rate |
| :--- |
| Total Funding |




|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 870 | - | - | - | 870 |
|  |  | Total | - | - | 870 | - | - | - | 870 |
| 9 | R.R. 57 (Bowmanville Ave.) from Stevens Rd. to Nash Rd., Bowmanville | Pre-Construction | - | 150 | - | - | - | - | 150 |
|  |  | Construction | - | - | - | - | - | 1,100 | 1,100 |
|  |  | Total | - | 150 | - | - | - | 1,100 | 1,250 |
| 10 | R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | 450 | - | 450 |
|  |  | Total | - | - | - | - | 450 | - | 450 |
| 11 | R.R. 59 (Gibb St.)/Olive Ave. Extension from Drew St. to Ritson Rd., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 570 | - | - | 570 |
|  |  | Total | - | - | - | 570 | - | - | 570 |
| 12 | Allowance for sanitary sewers in conjunction with the Regional Road Program | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 300 | - | 8,600 | 8,900 |
|  |  | Total | - | - | - | 300 | - | 8,600 | 8,900 |
|  | City of Pickering Road Program | Pre-Construction | - | 35 | 35 | 35 | 35 | 175 | 315 |
|  |  | Construction | - | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
|  |  | Total | - | 235 | 235 | 235 | 235 | 1,175 | 2,115 |
|  | Town of Ajax Road Program | Pre-Construction | - | 65 | 65 | 65 | 65 | 325 | 585 |
|  |  | Construction | - | 300 | 300 | 300 | 300 | 1,500 | 2,700 |
|  |  | Total | - | 365 | 365 | 365 | 365 | 1,825 | 3,285 |
|  | Town of Whitby Road Program | Pre-Construction | - | 100 | 100 | 100 | 100 | 500 | 900 |
|  |  | Construction | - | 500 | 500 | 500 | 500 | 2,500 | 4,500 |
|  |  | Total | - | 600 | 600 | 600 | 600 | 3,000 | 5,400 |

## Appendix D: 2023-2032 Sanitary Sewerage System Capital Forecast (\$,000's)

rovides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix C for financing details for capital projects proposed in 2023.

|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | City of Oshawa Road Program | Pre-Construction | 170 | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
|  |  | Construction | 400 | 900 | 900 | 900 | 900 | 4,500 | 8,100 |
|  |  | Total | 570 | 1,100 | 1,100 | 1,100 | 1,100 | 5,500 | 9,900 |
|  | Municipality of Clarington Road Program | Pre-Construction | 75 | 75 | 75 | 75 | 75 | 375 | 675 |
|  |  | Construction | 200 | 225 | 225 | 225 | 225 | 1,125 | 2,025 |
|  |  | Total | 275 | 300 | 300 | 300 | 300 | 1,500 | 2,700 |
|  | Township of Scugog Road Program | Pre-Construction | 50 | 10 | 10 | 10 | 10 | 50 | 90 |
|  |  | Construction | 150 | 65 | 65 | 65 | 65 | 325 | 585 |
|  |  | Total | 200 | 75 | 75 | 75 | 75 | 375 | 675 |
|  | Township of Uxbridge Road Program | Pre-Construction | 75 | 50 | 50 | 50 | 50 | 250 | 450 |
|  |  | Construction | 150 | 290 | 290 | 290 | 290 | 1,450 | 2,610 |
|  |  | Total | 225 | 340 | 340 | 340 | 340 | 1,700 | 3,060 |
|  | Township of Brock Road Program | Pre-Construction | - | 30 | 30 | 30 | 30 | 150 | 270 |
|  |  | Construction | - | 90 | 90 | 90 | 90 | 450 | 810 |
|  |  | Total | - | 120 | 120 | 120 | 120 | 600 | 1,080 |
|  | Allowance for unknown sanitary sewerage requirements in conjunction with area municipality road programs in various locations | Pre-Construction | 200 | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | 200 | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
|  | Sanitary Sewer replacement in conjunction with the Metrolinx Toronto East Rail Corridor expansion to Bowmanville | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 3,100 | - | - | - | - | 3,100 |
|  |  | Total | - | 3,100 | - | - | - | - | 3,100 |
| $23$ | Allowance for sanitary sewers in conjunction with the MTO \& GO Transit projects | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 100 | 100 | 100 | 100 | 500 | 900 |
|  |  | Total | - | 100 | 100 | 100 | 100 | 500 | 900 |
|  | Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 400 | 650 | 650 | 650 | 650 | 3,250 | 5,850 |
|  |  | Total | 400 | 650 | 650 | 650 | 650 | 3,250 | 5,850 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25 | Rehabilitation of existing sanitary sewers in various locations | Pre-Construction | - | - | - | - | - | ${ }^{-}$ |  |
|  |  | Construction | 457 | 490 | 338 | 1,000 | 1,000 | 5,000 | 7,828 |
|  |  | Total | 457 | 490 | 338 | 1,000 | 1,000 | 5,000 | 7,828 |
| 26 | Durham York Primary Trunk Sanitary Sewer System Condition Assessment and Rehabilitation requirements (CCTV inspection, minor repair and rehabilitation works to be completed on Chamber 4 to 7 ) | Pre-Construction | - | - | 3,000 | - | - | 17,375 | 20,375 |
|  |  | Construction | - | - | - | - | - | 52,125 | 52,125 |
|  |  | Total | - | - | 3,000 | - | - | 69,500 | 72,500 |
| 27 | Trunk Sanitary Sewer Rehabilitation from Lord Elgin Park to Kingston Rd. (Highway No. 2),Ajax | Pre-Construction | 250 | - | - | - | - | - | - |
|  |  | Construction | - | 1,000 | - | 5,000 | 5,000 | - | 11,000 |
|  |  | Total | 250 | 1,000 | - | 5,000 | 5,000 | - | 11,000 |
| 28 | Replacement of the trunk sanitary sewer from Harwood Ave. south and Edward St. through Lord Elgin Park to the intersection of Chadwick Dr. and Adams Dr., Ajax | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 1,600 | - | - | - | - | - | - |
|  |  | Total | 1,600 | - | - | - | - | - | - |
| 29 | Replacement of sanitary sewer between Birch Court and Glynn Road, Ajax | Pre-Construction | 150 | - | - | - | - | - | - |
|  |  | Construction | - | 500 | - | - | - | - | 500 |
|  |  | Total | 150 | 500 | - | - | - | - | 500 |
| 30 | Replacement of the sanitary sewer on High St. from Mary St. to Walnut St., Whitby | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 175 | - | - | - | - | - | - |
|  |  | Total | 175 | - | - | - | - | - | - |
| 31 | Replacement of sanitary sewer on Donovan Cres. from Walton Blvd. to 30 m east of Walton Blvd., Whitby | Pre-Construction | 215 | - | - | - | - | - | - |
|  |  | Construction | - | 430 | - | - | - | - | 430 |
|  |  | Total | 215 | 430 | - | - | - | - | 430 |
| 32 | Replacement of sanitary sewer on Water St. from the Whitby Water Supply Plant to Breakwater Sanitary Sewage Pumping Station, Whitby | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 920 | - | - | - | - | 920 |
|  |  | Total | - | 920 | - | - | - | - | 920 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 33 | Replacement of sanitary sewer on Hillcrest Dr. from Beech St. W/L to Beech St. E/L, Whitby | Pre-Construction | - | - | - | - | 150 | - | 150 |
|  |  | Construction | - | - | - | - | 840 | - | 840 |
|  |  | Total | - | - | - | - | 990 | - | 990 |
| 34 | Replacement of sanitary sewer on Athol St. from St. Lawrence St. to Clemence St., Whitby | Pre-Construction | - | 130 | - | - | - | - | 130 |
|  |  | Construction | - | - | - | 300 | - | - | 300 |
|  |  | Total | - | 130 | - | 300 | - | - | 430 |
| 35 | Replacement of sanitary sewer on St. Lawrence St. from Brock St. to Athol St., Whitby | Pre-Construction | - | 100 | - | - | - | - | 100 |
|  |  | Construction | - | - | - | 120 | - | - | 120 |
|  |  | Total | - | 100 | - | 120 | - | - | 220 |
| 36 | Replacement of sanitary sewer on Cochrane St. from Ferguson St. to 125 m north of Beech St. W., Whitby | Pre-Construction | - | 220 | - | - | - | - | 220 |
|  |  | Construction | - | - | 1,120 | - | - | - | 1,120 |
|  |  | Total | - | 220 | 1,120 | - | - | - | 1,340 |
| 37 | Replacement of sanitary sewer on R.R. 22 (Bloor St.) from Wilson Rd. to Holland St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 330 | - | - | - | - | 330 |
|  |  | Total | - | 330 | - | - | - | - | 330 |
| 38 | Replacement of sanitary sewer on Olive Ave from Simcoe St. to Drew St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 260 | - | - | - | - | - | - |
|  |  | Total | 260 | - | - | - | - | - | - |
| 39 | Replacement of sanitary sewer on RR 22 (Bloor St.) from Cubert St. to Oxford St., Oshawa | Pre-Construction | - | - | - | - | - | 100 | 100 |
|  |  | Construction | - | - | - | - | - | 330 | 330 |
|  |  | Total | - | - | - | - | - | 430 | 430 |
| 40 | Replacement of a sanitary sewer on Thornton Rd. from Adelaide Ave. to Tatra Dr., Oshawa | Pre-Construction | - | - | - | - | - | 500 | 500 |
|  |  | Construction | - | - | - | - | - | 1,000 | 1,000 |
|  |  | Total | - | - | - | - | - | 1,500 | 1,500 |
| $41$ | Replacement of sanitary sewer on Conant St. from Myers Rd. to Nelson St., Oshawa | Pre-Construction | 150 | - | - | - | - | - | - |
|  |  | Construction | - | - | 390 | - | - | - | 390 |
|  |  | Total | 150 | - | 390 | - | - | - | 390 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 42 | Replacement of sanitary sewer on Ritson Rd. S. from Kawartha Ave. to Simcoe Street South, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 675 | - | - | - | - | 675 |
|  |  | Total | - | 675 | - | - | - | - | 675 |
| 43 | Replacement of sanitary sewer on Ritson Rd. South from Annis St. to Conant St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 385 | - | - | - | - | 385 |
|  |  | Total | - | 385 | - | - | - | - | 385 |
| 44 | Replacement of sanitary sewer on Simcoe St. from Metcalf St to Quebec St., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 150 | - | - | - | - | - | - |
|  |  | Total | 150 | - | - | - | - | - | - |
| 45 | Replacement sanitary sewer on Jackson Ave from Merritt St. to Ritson Rd., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 300 | - | - | 300 |
|  |  | Total | - | - | - | 300 | - | - | 300 |
| 46 | Replacement of sanitary sewer on Mary St. from Rossland Rd to Robert St., Oshawa | Pre-Construction | 150 | - | - | - | - | - | - |
|  |  | Construction | 2,000 | - | - | - | - | - | - |
|  |  | Total | 2,150 | - | - | - | - | - | - |
| 47 | Replacement of forcemain on Wilmot Creek easement from Cobbledick Rd. to Toronto St., Newcastle | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 1,300 | - | - | - | - | - | - |
|  |  | Total | 1,300 | - | - | - | - | - | - |
| 48 | Replacement of sanitary sewer on First Ave. from Brock St. to Dominion St., Uxbridge | Pre-Construction | 150 | - | - | - | - | - | - |
|  |  | Construction | - | 330 | - | - | - | - | 330 |
|  |  | Total | 150 | 330 | - | - | - | - | 330 |
| 49 | Evaluation of trunk sanitary sewers/gravity sewers at creek crossings | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 75 | 75 | 75 | 75 | - | - | 225 |
|  |  | Total | 75 | 75 | 75 | 75 | - | - | 225 |
| 50 | Replacement of sanitary sewer in various locations | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 1,300 | 1,818 | 8,004 | 47,109 | 58,231 |
|  |  | Total | - | - | 1,300 | 1,818 | 8,004 | 47,109 | 58,231 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 51 | Allowance for construction of services in unserviced areas in response to requests or petitions | Pre-Construction | - |  |  |  |  |  |  |
|  |  | Construction | - | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
|  |  | Total | - | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
| 52 | Sanitary Sewer on Meadow St. from Avalon St. to Manor Dr., Oshawa | Pre-Construction | 100 | - | - | - | - | - | - |
|  |  | Construction | - | - | 260 | - | - | - | 260 |
|  |  | Total | 100 | - | 260 | - | - | - | 260 |
| 53 | York/Durham Sewage System - Primary Trunk Sanitary Sewer Twinning, Pickering | Pre-Construction | - | 16,000 | - | 20,000 | - | - | 36,000 |
|  |  | Construction | - | - | - | - | - | 217,050 | 217,050 |
|  |  | Total | - | 16,000 | - | 20,000 | - | 217,050 | 253,050 |
| 54 | Sanitary sewer on Church St. from Hydro Right of Way to Taunton Rd., Ajax (Region's Share) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 3,500 | - | - | - | - | 3,500 |
|  |  | Total | - | 3,500 | - | - | - | - | 3,500 |
| 55 | Sanitary sewer diversion on Hunt St. from Westney Rd. to Harwood Ave., Ajax | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 5,700 | - | - | - | 5,700 |
|  |  | Total | - | - | 5,700 | - | - | - | 5,700 |
| 56 | Twinning of Duffin Creek Trunk Sanitary Sewer on easement from Bayly St. Sanitary Sewage Pumping Station to Highway 401, Ajax | Pre-Construction | - | - | - | - | 500 | 1,000 | 1,500 |
|  |  | Construction | - | - | - | - | - | 5,700 | 5,700 |
|  |  | Total | - | - | - | - | 500 | 6,700 | 7,200 |
| 57 | Trunk Sanitary Sewer on Kingston Rd. (Highway No. 2) from east of Harwood Ave. to east of Galea Dr., Ajax | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 11,350 | - | - | - | - | - | - |
|  |  | Total | 11,350 | - | - | - | - | - | - |
| 58 | Corbett Trunk Sanitary Sewer on easement from | Pre-Construction | - | 1,000 | - | - | - | - | 1,000 |
|  | Wentworth St. to Corbett Creek Water Pollution Control | Construction | - | - | - | 6,200 | - | - | 6,200 |
|  | Plant, Whitby | Total | - | 1,000 | - | 6,200 | - | - | 7,200 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 59 | Thickson Rd. Sub-Trunk sanitary sewer from Glengowan St. to Conlin Rd., Whitby (Region's share only) | Pre-Construction |  | - | - | - | - | - | - |
|  |  | Construction | 2,738 | - | - | - | - | - | - |
|  |  | Total | 2,738 | - | - | - | - | - | - |
| 60 | West Whitby sub trunk on Dundas St. from Des Newman Blvd. to Halls Rd., Whitby | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 12,400 | - | - | - | - | 12,400 |
|  |  | Total | - | 12,400 | - | - | - | - | 12,400 |
| 61 | Brooklin Trunk Sanitary Sewer on Mid Block Arterial from Lynde Creek to St. Thomas St. Sanitary Sewage Pumping Station, Whitby | Pre-Construction | - | 900 | - | - | - | - | 900 |
|  |  | Construction | - | - | - | 4,020 | - | - | 4,020 |
|  |  | Total | - | 900 | - | 4,020 | - | - | 4,920 |
| 62 | West Brooklin Trunk Sanitary Sewer from west of Cochrane St. to east of Highway No. 12, Whitby (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 4,000 | 6,600 | - | - | - | - | 6,600 |
|  |  | Total | 4,000 | 6,600 | - | - | - | - | 6,600 |
| 63 | Southwest Brooklin Trunk Sanitary Sewer from west of Cochrane St. on New collector road to east of Highway 12, Whitby (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 4,700 | - | - | - | - | 4,700 |
|  |  | Total | - | 4,700 | - | - | - | - | 4,700 |
| 64 | West Central Brooklin Trunk Sanitary Sewer west of Way St., Whitby (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 1,900 | - | - | - | 1,900 |
|  |  | Total | - | - | 1,900 | - | - | - | 1,900 |
| 65 | Central Brooklin Trunk Sanitary Sewer, Whitby (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 4,800 | - | - | - | - | 4,800 |
|  |  | Total | - | 4,800 | - | - | - | - | 4,800 |
| 66 | Central East Brooklin Trunk Sanitary Sewer east of Baldwin St., Whitby (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 1,100 | - | - | - | 1,100 |
|  |  | Total | - | - | 1,100 | - | - | - | 1,100 |
| 67 | East Brooklin Trunk Sanitary Sewer east of Thickson Rd., Whitby (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 3,200 | - | - | - | - | 3,200 |
|  |  | Total | - | 3,200 | - | - | - | - | 3,200 |


|  | (1) Durhan | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 68 | Sanitary Sewer on local road from Windfields Farm Dr. to Winchester Rd., Oshawa | Pre-Construction | - | - | 120 | - | - | - | 120 |
|  |  | Construction | - | - | - | 1,000 | - | - | 1,000 |
|  |  | Total | - | - | 120 | 1,000 | - | - | 1,120 |
| 69 | Sanitary Sewer on Stevenson Rd. from Taunton Rd. to Conlin Rd., Oshawa | Pre-Construction | - | 300 | - | - | - | - | 300 |
|  |  | Construction | - | - | 2,800 | - | - | - | 2,800 |
|  |  | Total | - | 300 | 2,800 | - | - | - | 3,100 |
| 70 | Sanitary Sewer on Thornton Rd. from Conlin Rd. within the Northwood Employment Area, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 1,600 | - | - | - | - | - | - |
|  |  | Total | 1,600 | - | - | - | - | - | - |
| 71 | Ash Creek Trunk Sanitary Sewer from Consumers Dr./Green Rd. to Ash Creek Trunk Sanitary Sewage at the former Pringle Creek Water Pollution Control Plant, Whitby | Pre-Construction | - | - | 1,500 | - | - | 2,500 | 4,000 |
|  |  | Construction | - | - | - | - | - | 16,000 | 16,000 |
|  |  | Total | - | - | 1,500 | - | - | 18,500 | 20,000 |
| 72 | Mid Block Arterial Forcemain from Whitby/ Oshawa Boundary to Durham College easement, Whitby/Oshawa | Pre-Construction | - | 1,300 | - | - | - | - | 1,300 |
|  |  | Construction | - | - | - | 6,700 | - | - | 6,700 |
|  |  | Total | - | 1,300 | - | 6,700 | - | - | 8,000 |
| 73 | Farewell Creek Trunk Sanitary Sewer twinning on easement west of Grandview St., Oshawa | Pre-Construction | - | - | - | 800 | - | - | 800 |
|  |  | Construction | - | - | - | - | - | 2,700 | 2,700 |
|  |  | Total | - | - | - | 800 | - | 2,700 | 3,500 |
| 74 | Twinning of northwest branch of Harmony Creek SubTrunk Sanitary Sewer from Central Park Blvd N. \& Hillcroft St. to Beatrice St., Oshawa | Pre-Construction | 150 | 320 | - | - | - | - | 320 |
|  |  | Construction | - | - | 2,200 | - | - | - | 2,200 |
|  |  | Total | 150 | 320 | 2,200 | - | - | - | 2,520 |
| 75 | North Oshawa Creek (East branch) Trunk Sanitary Sewer on easement from Arctic Red Dr. to Winchester Rd., Oshawa (Region's Share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 5,000 | - | - | - | 5,000 |
|  |  | Total | - | - | 5,000 | - | - | - | 5,000 |

Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix C for financing details for capital projects proposed in 2023.

|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 76 | North Oshawa Creek (East Branch) Trunk Sanitary Sewer on easement from southeast of Thornton Rd. to Simcoe St., Oshawa (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 4,500 | 4,500 |
|  |  | Total | - | - | - | - | - | 4,500 | 4,500 |
|  | Twinning of Oshawa Creek Trunk Sanitary Sewer from Gibb St. to Greenwood Ave., Oshawa | Pre-Construction | - | - | - | 250 | - | - | 250 |
|  |  | Construction | - | - | - | - | - | 1,200 | 1,200 |
|  |  | Total | - | - | - | 250 | - | 1,200 | 1,450 |
| 78 | Forcemain on Conlin Rd. from Ritson Rd. to Harmony Rd., Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 9,200 | - | - | - | 9,200 |
|  |  | Total | - | - | 9,200 | - | - | - | 9,200 |
| 79 | North Oshawa Creek (West Branch) Trunk Sanitary Sewer from Conlin Rd. Sanitary Sewage Pumping Station to Britannia Ave., Oshawa | Pre-Construction | - | 1,000 | - | - | - | - | 1,000 |
|  |  | Construction | - | - | - | 4,500 | - | - | 4,500 |
|  |  | Total | - | 1,000 | - | 4,500 | - | - | 5,500 |
| 80 | North Oshawa Creek (West Branch) Trunk Sanitary Sewer from south side of hydro corridor to Columbus Rd., Oshawa | Pre-Construction | - | 3,000 | - | - | - | - | 3,000 |
|  |  | Construction | - | - | - | 19,300 | - | - | 19,300 |
|  |  | Total | - | 3,000 | - | 19,300 | - | - | 22,300 |
| 81 | Courtice Trunk Sanitary Sewer - Trulls Rd. from Bloor St. to future Adelaide Ave., Courtice | Pre-Construction | 3,000 | - | - | - | - | - | - |
|  |  | Construction | - | 52,700 | - | - | - | - | 52,700 |
|  |  | Total | 3,000 | 52,700 | - | - | - | - | 52,700 |
| 82 | Courtice Trunk Sanitary Sewer - Adelaide Ave. from Trulls Rd. to Townline Rd., Courtice | Pre-Construction | 1,200 | - | - | - | - | - | - |
|  |  | Construction | 7,600 | 4,300 | 4,300 | 44,800 | - | - | 53,400 |
|  |  | Total | 8,800 | 4,300 | 4,300 | 44,800 | - | - | 53,400 |
| 83 | Courtice Trunk Sanitary Sewer - Townline Rd. from Adelaide Ave. to Beatrice St., Courtice | Pre-Construction | - | - | 1,300 | - | - | - | 1,300 |
|  |  | Construction | - | - | - | - | 52,800 | - | 52,800 |
|  |  | Total | - | - | 1,300 | - | 52,800 | - | 54,100 |


|  | Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 84 | Southwest Courtice Sub -Trunk Sanitary Sewer on | Pre-Construction | - | - | - | - | - | - | - |
|  | Baseline Rd. from Trulls Rd. to 650 m west of Trulls Rd., Courtice | Construction | - | - | 4,600 | - | - | - | 4,600 |
|  |  | Total | - | - | 4,600 | - | - | - | 4,600 |
| 85 | Southeast Courtice Sub-Trunk Sanitary Sewer on future mid-block road from Trulls Rd. to Courtice Rd. \& | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 5,300 | - | - | - | - | - | - |
|  | Courtice Rd. from mid-block to Bloor St., Courtice | Total | 5,300 | - | - | - | - | - | - |
| 86 | Baseline Rd. Trunk Sanitary Sewer from Simpson Ave. to Bennett Rd., Bowmanville | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 16,900 | - | 14,000 | - | - | 30,900 |
|  |  | Total | - | 16,900 | - | 14,000 | - | - | 30,900 |
| 87 | Bennett Rd. Trunk Sanitary Sewer from Baseline Rd. to Highway No. 2, Bowmanville (Region's share only) | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 1,700 | 1,700 |
|  |  | Total | - | - | - | - | - | 1,700 | 1,700 |
| 88 | Port Darlington Rd. Trunk Sanitary Sewer from Baseline Rd. to existing easement, Bowmanville | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 24,300 | - | - | - | - | 24,300 |
|  |  | Total | - | 24,300 | - | - | - | - | 24,300 |
| 89 | Twinning of Spry Ave. Trunk Sanitary Sewer from Baseline Rd. to N/L of Spry Ave., Bowmanville | Pre-Construction | - | - | - | - | 1,000 | 1,000 | 2,000 |
|  |  | Construction | - | - | - | - | - | 5,000 | 5,000 |
|  |  | Total | - | - | - | - | 1,000 | 6,000 | 7,000 |
| 90 | Soper Creek Trunk Sanitary Sewer on Mearns Ave. from Freeland Ave. to Concession Rd. 3 and on Concession Rd. 3 from Mearns Ave. to 450 m west of Mearns Ave., Bowmanville | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 1,650 | - | - | - | - | 1,650 |
|  |  | Total | - | 1,650 | - | - | - | - | 1,650 |
| 91 | Foster Creek Trunk Sanitary Sewer on Sunset Blvd./ Lakeview Rd. from Rudell Rd. to Church St., Newcastle | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 11,000 | - | - | - | - | 11,000 |
|  |  | Total | - | 11,000 | - | - | - | - | 11,000 |
| 92 | Foster Creek Trunk Sanitary Sewer on North St. from north side of Canadian Pacific Railway to Concession Rd. 3, Newcastle (Region's share only) | Pre-Construction | - | 2,900 | - | - | - | - | 2,900 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | 2,900 | - | - | - | - | 2,900 |

Provides alisiting for all projects within the 2023 uducet and nine-year capital forecast. See Appendix C tor financing detalis for capitial projects proposed in 2023

|  | Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sanitary Sewer on Concession Rd. 5 to service the westerly portion of the Beaverton Avenue Employment Area A, Brock | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 3,600 | - | - | - | - | 3,600 |
|  |  | Total | - | 3,600 | - | - | - | - | 3,600 |
| Linear Infrastructure Subtotal |  |  | 46,615 | 189,710 | 52,978 | 135,408 | 82,729 | 414,584 | 875,409 |
| Buildings and Structures |  |  |  |  |  |  |  |  |  |
| 94 | Duffin Creek Water Pollution Control Plant - Chlorine Contact Tank Expansion | Pre-Construction | - | - | - | 340 | 500 | - | 840 |
|  |  | Construction | - | - | - | - | - | 14,640 | 14,640 |
|  |  | Total | - | - | - | 340 | 500 | 14,640 | 15,480 |
| 95 | Proposed Pickering Parkway Sanitary Sewage Pumping Station and forcemain, Pickering | Pre-Construction | - | 1,400 | 3,000 | - | - | - | 4,400 |
|  |  | Construction | - | - | - | - | 13,500 | - | 13,500 |
|  |  | Total | - | 1,400 | 3,000 | - | 13,500 | - | 17,900 |
| 96 | Proposed Squires Beach Sanitary Sewage Pumping Station, Pickering | Pre-Construction | - | - | - | - | - | 1,749 | 1,749 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | - | - | - | - | 1,749 | 1,749 |
| 97 | Corbett Creek Water Pollution Control Plant - works to rectify existing deficiencies | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 7,300 | - | - | - | - | 7,300 |
|  |  | Total | - | 7,300 | - | - | - | - | 7,300 |
| 98 | Expansion of Corbett Creek Water Pollution Control Plant from 84 MLD to 109 MLD | Pre-Construction | - | - | 10,000 | - | - | - | 10,000 |
|  |  | Construction | - | - | - | - | - | 174,000 | 174,000 |
|  |  | Total | - | - | 10,000 | - | - | 174,000 | 184,000 |
| 99 | Brooklin Sanitary Diversion Strategy - Proposed Thickson Rd. Sanitary Sewage Pumping Station and forcemain, Whitby | Pre-Construction | - | 3,500 | - | - | - | - | 3,500 |
|  |  | Construction | - | - | - | 29,800 | - | - | 29,800 |
|  |  | Total | - | 3,500 | - | 29,800 | - | - | 33,300 |
| 100 | Harmony Creek Water Pollution Control Plant No. 1 demolition, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 2,900 | - | - | - | 2,900 |
|  |  | Total | - | - | 2,900 | - | - | - | 2,900 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 101 | Harmony Creek Sanitary Sewage Pumping Station expansion and forcemain twinning, Oshawa | Pre-Construction | 600 | - | 3,000 | - | - | - | 3,000 |
|  |  | Construction | - | - | - | - | - | 45,100 | 45,100 |
|  |  | Total | 600 | - | 3,000 | - | - | 45,100 | 48,100 |
| 102 | Expansion of the Conlin Rd. Sanitary Sewage Pumping Station and twinning of the forcemain, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 2,500 | - | 70,700 | - | - | - | 70,700 |
|  |  | Total | 2,500 | - | 70,700 | - | - | - | 70,700 |
| 103 | Proposed Harbour Rd. South Sanitary Sewage Pumping Station and forcemain, Oshawa | Pre-Construction | - | 500 | - | 1,600 | - | - | 2,100 |
|  |  | Construction | - | - | - | - | - | 7,100 | 7,100 |
|  |  | Total | - | 500 | - | 1,600 | - | 7,100 | 9,200 |
| 104 | Simcoe St. South Sanitary Sewage Pumping Station and forcemain replacement, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 4,700 | - | - | - | - | 4,700 |
|  |  | Total | - | 4,700 | - | - | - | - | 4,700 |
| 105 | Madawaska Sanitary Sewage Pumping Station pumping station replacement, Oshawa | Pre-Construction | - | - | - | - | 1,000 | 1,200 | 2,200 |
|  |  | Construction | - | - | - | - | - | 7,500 | 7,500 |
|  |  | Total | - | - | - | - | 1,000 | 8,700 | 9,700 |
| 106 | Expansion of Courtice Water Pollution Control Plant from 68 MLD to 136 MLD | Pre-Construction | 1,000 | - | 4,500 | - | - | - | 4,500 |
|  |  | Construction | - | - | - | - | - | 148,900 | 148,900 |
|  |  | Total | 1,000 | - | 4,500 | - | - | 148,900 | 153,400 |
| 107 | Proposed Baseline Rd. Sanitary Sewage Pumping Station and forcemain, Courtice | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 4,000 | - | - | - | 4,000 |
|  |  | Total | - | - | 4,000 | - | - | - | 4,000 |
| 108 | Proposed Northeast Sanitary Sewage Pumping Station and forcemain, Bowmanville | Pre-Construction | - | - | - | 500 | - | 1,700 | 2,200 |
|  |  | Construction | - | - | - | - | - | 5,700 | 5,700 |
|  |  | Total | - | - | - | 500 | - | 7,400 | 7,900 |
| 109 | Newcastle Water Pollution Control Plant - Capacity Rerating 4 MLD to 7 MLD | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 3,630 | - | - | - | - | - | - |
|  |  | Total | 3,630 | - | - | - | - | - | - |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 110 | Expansion of Newcastle Water Pollution Control Plant from 7 MLD to 16 MLD and outfall | Pre-Construction | - | - | 1,100 | - | 1,300 | - | 2,400 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | - | 1,100 | - | 1,300 | - | 2,400 |
| 111 | Sunset Sanitary Sewage Pumping Station decommissioning, Clarington | Pre-Construction | - | 120 | - | - | - | - | 120 |
|  |  | Construction | - | 600 | - | - | - | - | 600 |
|  |  | Total | - | 720 | - | - | - | - | 720 |
| 112 | Uxbridge Water Pollution Control Plant - Optimization Study, upgrades and rehabilitation works based on the condition assessment. | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 4,600 | - | - | - | - | 4,600 |
|  |  | Total | - | 4,600 | - | - | - | - | 4,600 |
| 113 | Water St. Sanitary Sewage Pumping Station Expansion/Replacement, Scugog | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 19,550 | - | 3,000 | - | - | 22,550 |
|  |  | Total | - | 19,550 | - | 3,000 | - | - | 22,550 |
| 114 | Port Perry Industrial Area Sanitary Sewage Pumping Station, forcemain and sanitary sewer, Port Perry | Pre-Construction | - | 1,200 | - | - | - | - | 1,200 |
|  |  | Construction | - | - | - | - | 14,200 | - | 14,200 |
|  |  | Total | - | 1,200 | - | - | 14,200 | - | 15,400 |
| 115 | Sunderland Water Pollution Control Plant - Lagoon System, Brock | Pre-Construction | 2,000 | - | - | - | - | - | - |
|  |  | Construction | - | - | 11,000 | - | - | - | 11,000 |
|  |  | Total | 2,000 | - | 11,000 | - | - | - | 11,000 |
| 116 | River St. Sanitary Sewage Pumping Station expansion, Brock | Pre-Construction | 1,200 | - | - | - | - | - | - |
|  |  | Construction | - | 4,600 | - | - | - | - | 4,600 |
|  |  | Total | 1,200 | 4,600 | - | - | - | - | 4,600 |
| 117 | Cannington Water Pollution Control Plant - Lagoon System, Brock | Pre-Construction | 2,000 | - | - | - | - | - | - |
|  |  | Construction | - | - | 11,500 | - | - | - | 11,500 |
|  |  | Total | 2,000 | - | 11,500 | - | - | - | 11,500 |
| 118 | Laidlaw St. Sanitary Sewage Pumping Station expansion, Brock | Pre-Construction | 1,000 | - | - | - | - | - | - |
|  |  | Construction | - | 5,200 | - | - | - | - | 5,200 |
|  |  | Total | 1,000 | 5,200 | - | - | - | - | 5,200 |


|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 119 | Lake Simcoe Water Pollution Control Plant - expansion, Brock | Pre-Construction | - | - | - | - | 1,000 | 2,000 | 3,000 |
|  |  | Construction | - | - | - | - | - | 39,000 | 39,000 |
|  |  | Total | - | - | - | - | 1,000 | 41,000 | 42,000 |
| 120 | Harbour St. Sanitary Sewage Pumping Station expansion, Brock | Pre-Construction | - | - | - | - | 1,000 | 6,500 | 7,500 |
|  |  | Construction | - | - | - | - | - | - | - |
|  |  | Total | - | - | - | - | 1,000 | 6,500 | 7,500 |
| 121 | Beaverton Employment Lands Area B Sanitary Sewage Pumping Station and sanitary sewer, Brock | Pre-Construction | - | 1,000 | - | - | - | - | 1,000 |
|  |  | Construction | - | - | - | 5,800 | - | - | 5,800 |
|  |  | Total | - | 1,000 | - | 5,800 | - | - | 6,800 |
| 122 | Septage receiving stations, various stations | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 1,840 | - | - | - | - | 1,840 |
|  |  | Total | - | 1,840 | - | - | - | - | 1,840 |
| 123 | Water Pollution Control Plant - Asset Management Remediation and Rehabilitation works | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 5,000 | 8,000 | 5,000 | 8,000 | 45,000 | 71,000 |
|  |  | Total | - | 5,000 | 8,000 | 5,000 | 8,000 | 45,000 | 71,000 |
| 124 | New Concrete Floor in Sign Shed - Ajax Depot | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 25 | - | - | - | - | 25 |
|  |  | Total | - | 25 | - | - | - | - | 25 |
| 125 | Depot Rationalization - Ajax Depot Expansion | Pre-Construction | 1,667 | - | - | - | - | - | - |
|  |  | Construction | - | 11,667 | - | - | - | - | 11,667 |
|  |  | Total | 1,667 | 11,667 | - | - | - | - | 11,667 |
| 126 | Building J Roof Replacement - Corbett Creek WPCP | Pre-Construction | 82 | - | - | - | - | - | - |
|  |  | Construction | - | 153 | - | - | - | - | 153 |
|  |  | Total | 82 | 153 | - | - | - | - | 153 |
| 127 | Digester Cleanout - Various Locations | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 650 | 250 | - | - | - | 900 |
|  |  | Total | - | 650 | 250 | - | - | - | 900 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 128 | Access Ladder Repair/Replacement Project - Various Locations | Pre-Construction | - | - | - |  |  | - | - |
|  |  | Construction | 641 | - | - |  | - | - | - |
|  |  | Total | 641 | - | - |  |  | - | - |
| 129 | Replacement Fire System - Vesda - Duffin Creek WPCP | Pre-Construction | - | - | - |  |  | - | - |
|  |  | Construction | 800 | - | - |  | - | - | - |
|  |  | Total | 800 | - | - |  | - | - | - |
| 130 | New Furniture in Office and Lab - Expansion Environmental Lab | Pre-Construction | - | - | - |  | - | - | - |
|  |  | Construction | 22 | - | - |  | - | - | - |
|  |  | Total | 22 | - | - |  | - | - | - |
| 131 | Re-pave Existing South Driveway - Harmony Creek WPCP | Pre-Construction | - | 40 | - |  | - | - | 40 |
|  |  | Construction | - | - | 143 |  | - | - | 143 |
|  |  | Total | - | 40 | 143 | - | - | - | 183 |
| 132 | Install Electric Gates - Lake Simcoe WPCP | Pre-Construction | - | 40 | - |  | - | - | 40 |
|  |  | Construction | - | - | 110 | - | - | - | 110 |
|  |  | Total | - | 40 | 110 | - | - | - | 150 |
| 133 | Construction of Mezzanine in Fleet Bay 1 - Orono Depot | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 67 | - | - | - | - | 67 |
|  |  | Total | - | 67 | - | - | - | - | 67 |
| 134 | Thermal Glass Panels for Rollup Doors and Door operators - Orono Depot | Pre-Construction | - | - | - |  | - | - | - |
|  |  | Construction | - | 66 | - | - | - | - | 66 |
|  |  | Total | - | 66 | - | - | - | - | 66 |
| 135 | Paving of Rear Yard and Site Repairs - Orono Depot | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | - | - | 121 | 121 |
|  |  | Total | - | - | - | - | - | 121 | 121 |
| 136 | Roof Replacement on Vehicle Storage Bays - Orono Depot | Pre-Construction | 27 | - | - | - | - | - | - |
|  |  | Construction | - | 172 | - | - | - | - | 172 |
|  |  | Total | 27 | 172 | - | - | - | - | 172 |


|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 137 | 20 Bay Cold Vehicle Storage - Orono Depot Expansion | Pre-Construction | - | - | - | - | - | 73 | 73 |
|  |  | Construction | - | - | - | - | - | 1,192 | 1,192 |
|  |  | Total | - | - | - | - | - | 1,265 | 1,265 |
| 138 | Salt and Brine Storage Building - Orono Depot Expansion | Pre-Construction | - | - | - | - | - | 116 | 116 |
|  |  | Construction | - | - | - | - | - | 1,050 | 1,050 |
|  |  | Total | - | - | - | - | - | 1,166 | 1,166 |
| 139 | Replacement of Fire System - Oshawa/Whitby Depot | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 68 | - | - | - | - | - | - |
|  |  | Total | 68 | - | - | - | - | - | - |
| 141 | Depot Rationalization - New Oshawa/Whitby Depot | Pre-Construction | 12,667 | 1,667 | - | - | - | - | 1,667 |
|  |  | Construction | - | - | 55,000 | - | - | - | 55,000 |
|  |  | Total | 12,667 | 1,667 | 55,000 | - | - | - | 56,667 |
| 142 | Driveway Replacement - Plants Central - Zone 2 Reservoir | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 50 | - | - | - | - | 50 |
|  |  | Total | - | 50 | - | - | - | - | 50 |
| 143 | Repairs and Epoxy Coat Fleet Bay Concrete Floors \& Repairs to Floor Drains in Fleet Bays - Scugog Depot | Pre-Construction | 7 | - | - | - | - | - | - |
|  |  | Construction | - | 28 | - | - | - | - | 28 |
|  |  | Total | 7 | 28 | - | - | - | - | 28 |
| 144 | Replace Existing Asphalt in Various Location - Scugog Depot | Pre-Construction | - | - | 10 | - | - | - | 10 |
|  |  | Construction | - | - | - | 123 | - | - | 123 |
|  |  | Total | - | - | 10 | 123 | - | - | 133 |
|  | Additional Office Space - Scugog Depot | Pre-Construction | - | - | - | 93 | - | - | 93 |
|  |  | Construction | - | - | - | - | 406 | - | 406 |
|  |  | Total | - | - | - | 93 | 406 | - | 499 |



|  | Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | New 16 Bay Cold Vehicle Storage - Scugog Depot Expansion | Pre-Construction | - | - | - | 73 | - | - | 73 |
|  |  | Construction | - | - | - | - | 992 | - | 992 |
|  |  | Total | - | - | - | 73 | 992 | - | 1,065 |
|  | New Salt and Brine Storage Facility - Scugog Depot Expansion | Pre-Construction | - | - | - | 100 | - | - | 100 |
|  |  | Construction | - | - | - | - | 1,067 | - | 1,067 |
|  |  | Total | - | - | - | 100 | 1,067 | - | 1,167 |
|  | Widening of Existing Canopy Entrance - Sunderland Depot | Pre-Construction | 8 | - | - | - | - | - | - |
|  |  | Construction | - | 42 | - | - | - | - | 42 |
|  |  | Total | 8 | 42 | - | - | - | - | 42 |
| 149 | Install Perimeter Fence - Pumping Stations Central Cochrane St SPS | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 50 | - | - | - | - | - | - |
|  |  | Total | 50 | - | - | - | - | - | - |
|  | Renovation \& Optimization - 101 Consumers | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 442 | - | - | - | - | - | - |
|  |  | Total | 442 | - | - | - | - | - | - |
| 151 | Access Ladder Repair/Replacement Project - Duffin Creek WPCP | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 582 | - | - | - | - | - | - |
|  |  | Total | 582 | - | - | - | - | - | - |
|  | Depot Rationalization - New Sunderland Depot | Pre-Construction | 1,333 | 1,333 | - | - | - | - | 1,333 |
|  |  | Construction | - | - | 14,000 | - | - | - | 14,000 |
|  |  | Total | 1,333 | 1,333 | 14,000 | - | - | - | 15,333 |
| Buildin | ings and Structures Subtotal |  | 32,325 | 77,110 | 199,213 | 46,429 | 42,965 | 502,641 | 868,358 |
| Machinery \& Equipment |  |  |  |  |  |  |  |  |  |
|  |  | Pre-Construction | 100 | - | - | - | - | - | - |
| 153 | Central Duffin Creek Metering Building at Valleyfarm Road and Finch Avenue meter replacement, Pickering | Construction | - | 560 | - | - | - | - | 560 |
|  |  | Total | 100 | 560 | - | - | - | - | 560 |


|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
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| 154 | Duffin Creek Water Pollution Control Plant - Digester mixing improvements and Motor Control Centre Replacement, Pickering | Pre-Construction |  |  |  |  |  |  |  |
|  |  | Construction | 21,450 | 23,850 | - | - | - | - | 23,850 |
|  |  | Total | 21,450 | 23,850 | - | - | - | - | 23,850 |
| 155 | Duffin Creek Water Pollution Control Plant Replacement of Reactor No. 1 \& 2, Pickering | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 25,000 | 25,000 | 50,000 | 70,000 | 133,500 | 303,500 |
|  |  | Total | - | 25,000 | 25,000 | 50,000 | 70,000 | 133,500 | 303,500 |
| 156 | Duffin Creek Water Pollution Control Plant - Remedial works and improvements in various locations throughout the plant | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 27,500 | - | - | - | - | - | - |
|  |  | Total | 27,500 | - | - | - | - | - | - |
| 157 | Duffin Creek Water Pollution Control Plant - Ammoniabased aeration control (ABAC) for Stage 1, 2 and 3 | Pre-Construction | 1,000 | - | - | - | - | - | - |
|  |  | Construction | - | - | 5,000 | - | - | - | 5,000 |
|  |  | Total | 1,000 | - | 5,000 | - | - | - | 5,000 |
| 158 | Duffin Creek Water Pollution Control Plant - Ultra Fine Bubble Diffusers conversion (full plant) | Pre-Construction | - | - | - | - | - | 3,000 | 3,000 |
|  |  | Construction | - | - | - | - | - | 20,000 | 20,000 |
|  |  | Total | - | - | - | - | - | 23,000 | 23,000 |
| 159 | Duffin Creek Water Pollution Control Plant - Biogas Purification to Renewable Natural Gas (RNG) | Pre-Construction | - | - | - | - | 5,000 | - | 5,000 |
|  |  | Construction | - | - | - | - | 5,000 | 18,400 | 18,400 |
|  |  | Total | - | - | - | - | 5,000 | 18,400 | 23,400 |
| 160 | Duffin Creek Water Pollution Control Plant - Condition Assessment and Asset Plan updating | Pre-Construction | - | - |  | - |  |  | - |
|  |  | Construction | - | 200 | 300 | - | - | 500 | 1,000 |
|  |  | Total | - | 200 | 300 | - | - | 500 | 1,000 |
| 161 | Duffin Creek Water Pollution Control Plant - Asset Management Remediation and rehabilitation works | Pre-Construction | - | 100 | 100 | 100 | 100 | 4,300 | 4,700 |
|  |  | Construction | - | 900 | 900 | 900 | 900 | 20,700 | 24,300 |
|  |  | Total | - | 1,000 | 1,000 | 1,000 | 1,000 | 25,000 | 29,000 |


|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
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| 162 | Liverpool Road Sanitary Sewage Pumping Station communication, mechanical and process upgrades, Pickering | Pre-Construction | - |  |  | - |  | - |  |
|  |  | Construction | - | 3,700 | - | - | - | - | 3,700 |
|  |  | Total | - | 3,700 | - | - | - | - | 3,700 |
| 163 | Carruthers Sanitary Sewage Pumping Station - Standby Power Upgrades | Pre-Construction | - | - | 250 | - | - | - | 250 |
|  |  | Construction | - | - | - | - | 750 | - | 750 |
|  |  | Total | - | - | 250 | - | 750 | - | 1,000 |
| 164 | Michael Blvd. Sanitary Sewerage Pumping Station replacement of the Motor Control Centre (MCC) and pump, Whitby | Pre-Construction | 200 | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 2,000 | - | - | 2,000 |
|  |  | Total | 200 | - | - | 2,000 | - | - | 2,000 |
| 165 | Hanover Sanitary Sewage Pumping Station - the replacement of pumps and forcemain, Whitby | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 100 | - | - | - | - | - | - |
|  |  | Total | 100 | - | - | - | - | - | - |
| 166 | Breakwater Saniitary Sewage Pumping Station - station modifications, Whitby | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 960 | - | - | - | 960 |
|  |  | Total | - | - | 960 | - | - | - | 960 |
| 167 | Simcoe St. Sanitary Sewerage Pumping Station Chemical Pump addition, Oshawa | Pre-Construction | 250 | - | - | - | - | - | - |
|  |  | Construction | - | - | 575 | - | - | - | 575 |
|  |  | Total | 250 | - | 575 | - | - | - | 575 |
| 168 | Madawaska Sanitary Sewerage Pumping Station piping upgrades and flow meter installation, Oshawa | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 460 | - | - | - | 460 |
|  |  | Total | - | - | 460 | - | - | - | 460 |
| 169 | Courtice Water Pollution Control Plant - remediation work and performance improvements, Courtice | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 2,900 | - | - | - | - | 2,900 |
|  |  | Total | - | 2,900 | - | - | - | - | 2,900 |
| 170 | Courtice Water Pollution Control Plant - Digester 1 Refurbishment, Courtice | Pre-Construction | - | - | 750 | 1,600 | - | - | 2,350 |
|  |  | Construction | - | - | - | - | - | 4,000 | 4,000 |
|  |  | Total | - | - | 750 | 1,600 | - | 4,000 | 6,350 |


|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
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| 171 | Port Darlington Water Pollution Control Plant - Major Maintenance replacement work, Bowmanville | Pre-Construction | - | - | - | - | - | - |  |
|  |  | Construction | - | 7,100 | - | - | - | - | 7,100 |
|  |  | Total | - | 7,100 | - | - | - | - | 7,100 |
| 172 | Port Darlington Water Pollution Control Plant - work to recitify deficiencies, Bowmanville | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | 1,400 | - | - | - | - | 1,400 |
|  |  | Total | - | 1,400 | - | - | - | - | 1,400 |
| 173 | Lake Simcoe Water Pollution Control Plant - Diffused Air System replacement and associated system upgrades | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 7,050 | - | - | - | - | - | - |
|  |  | Total | 7,050 | - | - | - | - | - | - |
| 174 | Lake Simcoe Water Pollution Control Plant Replacement of Clarifier mechanisms | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 100 | - | - | - | - | - | - |
|  |  | Total | 100 | - | - | - | - | - | - |
| 175 | Lake Simcoe Water Pollution Control Plant - tertiary filter replacement | Pre-Construction | - | 750 | - | - | - | - | 750 |
|  |  | Construction | - | - | - | - | 2,000 | - | 2,000 |
|  |  | Total | - | 750 | - | - | 2,000 | - | 2,750 |
| 176 | Lake Simcoe Water Pollution Control Plant and associated sanitary sewerage pumping stations - PLC and SCADA system upgrades | Pre-Construction | 500 | - | - | - | - | - | - |
|  |  | Construction | - | - | 6,000 | - | - | - | 6,000 |
|  |  | Total | 500 | - | 6,000 | - | - | - | 6,000 |
| 177 | Laidlaw, Cedar and Harbour St. Sanitary Sewage Pumping Station - Major Maintenance and replacement work | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | - | 4,000 | - | - | 4,000 |
|  |  | Total | - | - | - | 4,000 | - | - | 4,000 |
| 178 | Sanitary Sewerage Pumping Station - piping upgrades and flow meter installation, at various locations | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | - | - | 500 | 500 | - | - | 1,000 |
|  |  | Total | - | - | 500 | 500 | - | - | 1,000 |



|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
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| 179 | Emergency Generator Fuel Tank Compliance upgrades Phase 3 and 5 | Pre-Construction | - | - | - | - | - | - | - |
|  |  | Construction | 1,700 | - | - | - | - | - | - |
|  |  | Total | 1,700 | - | - | - | - | - | - |
| 180 | Asphalt Content Ignition Furnace - Construction |  | - | - | - | - | - | 7 | 7 |
| 181 | Bar Pullout Tester - Construction |  | 4 | - | - | - | - | - | - |
| 182 | Bench Oven - Construction |  | 5 | - | - | - | - | - | - |
| 183 | Concrete End Grinder - Construction |  | 8 | - | - | - | - | - | - |
| 184 | Concrete Testing Equipment - Construction |  | - | - | - | - | - | 9 | 9 |
| 185 | Electronic Scale - Construction |  | - | - | - | - | - | 3 | 3 |
| 186 | Gyratory Compactor/Molds/Equipment - Construction |  | 22 | - | - | - | - | - | - |
| 187 | Lab Oven - Construction |  | - | - | - | - | - | 4 | 4 |
| 188 | Nuclear Densometer - Construction |  | 3 | - | 5 | - | - | - | 5 |
| 189 | Survey GPS Instrument - Construction |  | - | 10 | 10 | 10 | 10 | 54 | 94 |
| 190 | Survey Total Station Replacement - Construction |  | - | - | - | - | - | 39 | 39 |
| 191 | Valve Actuators - Corbett Creek WPCP |  | - | 25 | - | 25 | - | - | 50 |



|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
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| 192 | WAS Pump Replacement - Corbett Creek WPCP |  | - | 50 | - | - | - | - | 50 |
| 193 | Aeration Cell Cleanout - Sand - Courtice WPCP |  | - | 200 | - | - | - | - | 200 |
| 194 | Biosolids Transfer Pumps - Courtice WPCP |  | - | 15 | - | - | - | - | 15 |
| 195 | Chemical Pump Replacement - Various Locations |  | 18 | 12 | - | 30 | - | 12 | 54 |
| 196 | Clarifier Mechanisms - Courtice WPCP |  | - | 32 | 32 | - | - | - | 64 |
| 197 | Digester Mixing Pump Rebuild - Courtice WPCP |  | - | 15 | - | 15 | - | 30 | 60 |
| 198 | Digester Mixing Pumps - Courtice WPCP |  | - | - | 15 | - | 15 | 15 | 45 |
| 199 | Grit Blower Rebuild - Courtice WPCP |  | 10 | - | 10 | - | 10 | - | 20 |
| 200 | Return Pump Rebuild - Courtice WPCP |  | - | - | - | - | - | 30 | 30 |
| 201 | Truck Loading Pump Rebuild - Courtice WPCP |  | - | - | 15 | - | 15 | - | 30 |
| 202 | Wasting Pump Rebuild - Courtice WPCP |  | - | 10 | - | 10 | - | 20 | 40 |
| 203 | Analytical Balance Bench Scale - Duffin Creek WPCP |  | 15 | - | - | - | - | - | - |
| 204 | Auto Sampler Replacement - Duffin Creek WPCP |  | 25 | - | - | - | - | 75 | 75 |
| 205 | Barscreen Replacement/Major Repair - Duffin Creek WPCP |  | - | - | - | - | 150 | 150 | 300 |



|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
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|  | BAS Server Replacement - Duffin Creek WPCP |  | 75 | - | - | - | - | 75 | 75 |
| 207 | Biofilter Inspection/Media Replacement - Duffin Creek WPCP |  | - | - | 100 | 100 | 100 | 200 | 500 |
| 208 | Blower Building Major Repairs - Duffin Creek WPCP |  | - | - | - | - | - | 200 | 200 |
| 209 | Bobcat Replacement - Duffin Creek WPCP |  | - | - | 75 | - | - | - | 75 |
| 210 | Boiler Building Instrumentation - Duffin Creek WPCP |  | - | 75 | 75 | 75 | - | - | 225 |
| 211 | Chain and Flyght Replacement - Stage 3 Secondary Clarifier - Duffin Creek WPCP |  | 100 | - | - | - | - | - | - |
| 212 | Density Meter Replacement - Duffin Creek WPCP |  | - | - | - | 88 | - | - | 88 |
| 213 | Dewatered Sludge Conveyor Replacement - Duffin Creek WPCP |  | - | - | - | 125 | - | 125 | 250 |
| 214 | Digester Cleanout/Blend Tank - Duffin Creek WPCP |  | - | 125 | - | - | - | 1,200 | 1,325 |
| 215 | Dock Leveler Replacement - Duffin Creek WPCP |  | 30 | 50 | - | - | - | - | 50 |
| 216 | DPD Analyzer - Duffin Creek WPCP |  | - | 17 | - | - | - | - | 17 |
| 217 | DR3900 Spectrophotometer - Duffin Creek WPCP |  | 15 | - | - | - | - | - | - |
| 218 | ERIS Servers - Duffin Creek WPCP |  | - | 75 | - | - | - | 75 | 150 |
| 219 | Filtrate Station LIT Replacement - Duffin Creek WPCP |  | - | 75 | - | - | - | - | 75 |



|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | Fore | 2027 | 2028-2032 | Forecast Total |
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| 220 | Filtrate Station Pump Replacement - Duffin Creek WPCP |  | - | - | - | - | - | 200 | 200 |
| 221 | Forklift Replacement - Duffin Creek WPCP |  | - | - | - | - | - | 140 | 140 |
| 222 | Gator Replacement - Duffin Creek WPCP |  | - | 25 | - | - | - | 100 | 125 |
| 223 | Grit Conveyor System Replacement - Duffin Creek WPCP |  | - | - | 150 | - | - | 300 | 450 |
| 224 | Integrated Control Technology - Security Project Various Locations |  | 311 | - | - | - | - | - | - |
| 225 | Laboratory Meter/Scale Replacement - Duffin Creek WPCP |  | - | - | 15 | - | - | 65 | 80 |
| 226 | Major Centrifuge Component Replacement/Rebuild Duffin Creek WPCP |  | - | 125 | 125 | 125 | 125 | 500 | 1,000 |
| 227 | Network Core Switches - Duffin Creek WPCP |  | - | - | 150 | - | - | 150 | 300 |
| 228 | Network Switches BAS, SCADA - Duffin Creek WPCP |  | - | - | - | - | 300 | 300 | 600 |
| 229 | OIT Replacements - Duffin Creek WPCP |  | - | 15 | 15 | 15 | 15 | 75 | 135 |
| 230 | Polymer Building PRAP Network Upgrades - Duffin Creek WPCP |  | 40 | - | - | - | - | - | - |
| 231 | Programmable Logic Controllers (PLCs) - Duffin Creek WPCP |  | - | 200 | 300 | - | - | 400 | 900 |
| 232 | Radio Network Upgrades - Duffin Creek WPCP |  | - | - | - | - | - | 250 | 250 |
| 233 | Reactor \#3 ID Fan Replacement Parts - Duffin Creek WPCP |  | - | - | - | - | 150 | - | 150 |



|  | (\%) Durham | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | $2026{ }^{\text {Fore }}$ | 2027 | 2028-2032 | Forecast Total |
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| 243 | Replace LITs of Storage Tank 2,4,3 at Stage 3 Disinfection - Duffin Creek WPCP |  | - | - | - | - | - | 45 | 45 |
| 244 | Replace methane sensors, H2S sensors, PITs, TITs, LITs, and FITs at Stage 2 Headworks - Duffin Creek WPCP |  | - | - | - | 150 | 150 | - | 300 |
| 245 | Replace transmitters (PITs, TITs, LITs, and AITs) at Reactor 3 - Duffin Creek WPCP |  | - | - | - | - | 100 | 100 | 200 |
| 246 | Replace transmitters (PITs, TITs, LITs, and AITs) at Reactor 4 - Duffin Creek WPCP |  | - | - | - | - | - | 200 | 200 |
| 247 | Replace transmitters (PITs, TITs, LITs, and AITs), process and safety valves at the South Incineration Common Area - Duffin Creek WPCP |  | - | 75 | 75 | - | - | - | 150 |
| 248 | Replace transmitters (PITs, TITs, LITs, Vibration Sensor, and AITs) at the North Incineration Common Area - Duffin Creek WPCP |  | - | 100 | - | 100 | - | 100 | 300 |
| 249 | Replace Wet Well No.1/No. 2 LIT-0101/LIT-0102, strainer No. 3 - No. 5 differential pressure switches, and main header PIT-0192 at Stage 3 Effluent Pumping Station - Duffin Creek WPCP |  | - | - | - | - | - | 70 | 70 |
| 250 | Schwing Sludge Pump Major Component Replacement Duffin Creek WPCP |  | - | 125 | - | 125 | - | 250 | 500 |



|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
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| 251 | Secondary Clarifier (Circular) Gearbox - Duffin Creek WPCP |  | 240 | - | - | - | - | - | - |
| 252 | Secondary Clarifier (Circular) Major Repairs - Duffin Creek WPCP |  | - | 150 | 150 | 150 | - | - | 450 |
| 253 | Secondary Clarifier (Circular) Upgrades - Duffin Creek WPCP |  | - | 200 | 200 | 200 | - | - | 600 |
| 254 | Secondary Clarifier Chain and Flyght Replacement Duffin Creek WPCP |  | - | 100 | 100 | 100 | - | - | 300 |
| 255 | Servers - Duffin Creek WPCP |  | - | - | 100 | - | - | 100 | 200 |
| 256 | Sludge Tank Cleaning - Duffin Creek WPCP |  | - | - | 100 | - | - | 100 | 200 |
| 257 | Uninterruptable Power Supplies (UPS) - Duffin Creek WPCP |  | - | - | - | - | 250 | 300 | 550 |
| 258 | VxRail Replacement Project (Virtual Server) - Duffin Creek WPCP |  | - | - | 175 | - | 175 | 420 | 770 |
| 259 | Analytical Balance (Inorganics) - Environmental Lab |  | - | 25 | - | - | - | - | 25 |
| 260 | Auto Titration System (Inorganic) - Environmental Lab |  | - | - | - | - | - | 100 | 100 |
| 261 | Autoclaves - Environmental Lab |  | - | - | - | - | - | 150 | 150 |
| 262 | Balances - Environmental Lab |  | - | - | - | - | - | 52 | 52 |
| 263 | Biochemical Oxygen Demand (BOD) Incubators Environmental Lab |  | 40 | - | - | - | - | - | - |
| 264 | Biological Oxygen Demand Analyzer - Environmental Lab |  | 11 | - | - | - | 60 | - | 60 |



|  | Durham Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Biosafety Cabinet - Environmental Lab |  | - | - | - | - | - | 25 | 25 |
| 266 | BOD Incubators (Inorganic) - Environmental Lab |  | - | - | - | 40 | - | - | 40 |
|  | Centrifuge (Inorganics) - Environmental Lab |  | 12 | - | - | - | - | - | - |
| 268 | PCR Equipment - Environmental Lab |  | - | 295 | - | - | - | - | 295 |
| 269 | Digestion Block with Controllers - Environmental Lab |  | 80 | - | - | - | - | - | - |
| 270 | Dishwasher - Environmental Lab |  | 10 | - | 65 | - | - | 110 | 175 |
| 271 | Drying Oven (MB) - Environmental Lab |  | - | - | - | - | - | 3 | 3 |
| 272 | Freezer - Environmental Lab |  | - | 35 | - | - | - | 4 | 39 |
| 273 | Gas Chromatograph / Dual Electron Capture Detector Environmental Lab |  | - | - | 75 | - | - | - | 75 |
| 274 | Gas Chromatograph / Mass Spectrometer / MS (Extractables) - Environmental Lab |  | 300 | - | - | - | - | - | - |
| 275 | Incubators (Microbiology) - Environmental Lab |  | - | - | - | - | - | 65 | 65 |
| 276 | Inductively Coupled Plasma - Optical Emission Spectrometer - Environmental Lab |  | - | 150 | - | - | - | - | 150 |
| 277 | Ion Chromatograph - Environmental Lab |  | - | - | - | - | 130 | - | 130 |
| 278 | Lab Oven (Inorgranics) - Environmental Lab |  | - | - | - | - | - | 15 | 15 |



|  | Durham Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
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| 279 | Liquid Chromatograph Mass Spectrometer Environmental Lab |  | - | - | - | - | - | 400 | 400 |
| 280 | Media Preparing Equipment (Microbiology) - <br> Environmental Lab |  | - | - | - | - | - | 65 | 65 |
| 281 | Mercury Analyzer (Cold Vapour Fluorescence / Atomic Absorption) - Environmental Lab |  | - | - | - | - | 70 | - | 70 |
| 282 | Microscope - Environmental Lab |  | 75 | - | - | - | - | 30 | 30 |
| 283 | Muffle Furnace - Environmental Lab |  | - | - | - | - | - | 20 | 20 |
| 284 | Nanodrop - Environmental Lab |  | - | 25 | - | - | - | - | 25 |
| 285 | Pharmacy Lab Refrigerator - Environmental Lab |  | - | - | - | - | - | 15 | 15 |
| 286 | Powder Containment System (MB) - Environmental Lab |  | - | - | - | - | - | 6 | 6 |
| 287 | Skalar Auto Sampler - Environmental Lab |  | - | - | - | - | 25 | - | 25 |
| 288 | Skalar Low P Analyzer - Environmental Lab |  | - | - | - | - | 65 | - | 65 |
| 289 | Skalar Segmented Flow Analyzer - Environmental Lab |  | - | 130 | - | - | - | - | 130 |
| 290 | Solids Manifold - Environmental Lab |  | 20 | - | - | - | - | - | - |
| 291 | SPME Gas Chromatograph / Mass Spectrometer / Mass Spectrometer - Environmental Lab |  | - | - | - | 310 | - | - | 310 |
| 292 | Turbovaps - Environmental Lab |  | - | 36 | - | - | - | - | 36 |

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|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 293 | UV Spec. Plate Readers - Environmental Lab |  | - | 30 | - | - | - | - | 30 |
| 294 | Vacusafe (MB) - Environmental Lab |  | - | - | - | - | - | 4 | 4 |
| 295 | Water Purification System - Environmental Lab |  | 25 | - | - | - | - | 30 | 30 |
| 296 | Teleloggers - Environmental Services Design |  | - | 5 | 5 | 5 | 5 | 20 | 40 |
| 297 | Mechanical Bar screen Replacement - Lake Simcoe WPCP |  | - | - | 100 | - | - | - | 100 |
| 298 | RAS Piping - Nonquon WPCP |  | 95 | - | - | - | - | - | - |
| 301 | RAS Chamber Split - Plants North - Nonquon |  | - | 75 | - | - | - | - | 75 |
| 302 | Backflow Preventer Device Replacement - Port Darlington WPCP |  | 29 | - | - | - | - | - | - |
| 303 | Digester Mixing Pump Rebuild/Replacement - Port Darlington WPCP |  | - | - | - | - | 20 | 20 | 40 |
| 304 | Grit Blower Rebuild/Replacement - Port Darlington WPCP |  | - | - | - | - | - | 20 | 20 |
| 305 | Grit Pump Rebuild/Replacement - Port Darlington WPCP |  | - | - | 10 | - | - | 10 | 20 |
| 306 | RAS Pump - Port Darlington WPCP |  | - | - | - | 15 | - | 30 | 45 |
| 307 | Raw Sewage Pump - Port Darlington WPCP |  | - | - | - | - | 50 | 50 | 100 |
| 308 | Raw Sludge Pump - Port Darlington WPCP |  | - | - | 15 | - | 15 | 15 | 45 |



|  | Durham Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 Fore | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 309 | Sodium Bisulfite HVAC - Port Darlington WPCP |  | 135 | - | - | - | - | - | - |
| 310 | Wasting Pump Rebuild/Replacement - Port Darlington WPCP |  | - | - | - | - | 10 | 10 | 20 |
| 311 | 48" Round Shoring - Sunderland Depot |  | - | 3 | - | - | - | 3 | 6 |
| 313 | Pipe Locator - Sunderland Depot |  | - | 3 | - | - | - | 3 | 6 |
| 314 | Pressure Washer - Sunderland Depot |  | - | 3 | 3 | - | - | - | 6 |
| 315 | Snow Fence Replacement - Sunderland Depot |  | - | - | - | - | - | 6 | 6 |
| 316 | Temporary Traffic Control Sign replacement Sunderland Depot |  | - | 2 | 2 | - | 2 | 4 | 10 |
| 317 | Trench box replacement - Sunderland Depot |  | - | - | - | - | - | 5 | 5 |
| 318 | Install AC for Blower Room - Uxbridge Brook WPCP |  | 50 | 205 | - | - | - | - | 205 |
| 319 | Mechanical Bar screen Refurbishment - Uxbridge Brook WPCP |  | - | 100 | - | - | - | - | 100 |
| 320 | Arc Flash Study Review - Water Pollution Control Plants |  | - | - | - | 200 | - | - | 200 |
| 321 | Electrical Equipment Replacements - WPCP Pumping Stations |  | 50 | 110 | 110 | 50 | 110 | 100 | 480 |
| 322 | Level Sensing Flow Meters - WPCP Pumping Stations North |  | - | 80 | - | - | - | - | 80 |
| 323 | Pump Replacements - WPCP Pumping Stations - South |  | - | 100 | 100 | 100 | 100 | 200 | 600 |




| Appendix D: 2023-2032 Sanitary Sewerage System Capital Forecast (\$,000's) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | Fore | 2027 | 2028-2032 | Forecast Total |
| 337 | LIMS Computer System - Environmental Lab |  | 100 | - | - | - | - | 120 | 120 |
| 338 | LIMS Domain Controllers - Environmental Lab |  | - | - | - | 50 | - | - | 50 |
| 339 | Power Laptop (with Monitor) |  | 5 | 7 | - | - | - | - | 7 |
| 340 | Tablet - Environmental Services Design |  | - | 4 | 4 | 4 | 4 | 20 | 36 |
| 341 | Computers \& Monitors Refresh - Financial Services |  | 265 | 205 | 63 | 254 | 208 | 860 | 1,590 |
| 342 | Fuel Management System \& Infrastructure Replacement - Various Locations |  | - | - | 217 | - | - | - | 217 |
| 343 | Mobile ERIS Equipment - Water Pollution Control Plants |  | - | - | 12 | - | - | - | 12 |
| 344 | Server/Communications Equipment - WPCP Pumping Stations |  | - | 150 | - | - | - | - | 150 |
| Inform | mation Technology Subtotal |  | 963 | 450 | 1,800 | 1,846 | 483 | 1,706 | 6,285 |
| Vehicles |  |  |  |  |  |  |  |  |  |
| 345 | 1/2 Ton Pick-up Truck - Various Locations |  | - | 134 | 28 | 28 | 56 | 84 | 330 |
| 346 | 1 Ton High Roof Van - Ajax Depot |  | - | 42 | - | - | - | - | 42 |
| 347 | Forklift - Various Locations |  | - | 25 | - | - | - | - | 25 |
| 348 | Tractor - Ajax Depot |  | - | 100 | - | - | - | - | 100 |
| 349 | Rubber tire roller compaction unit - Orono Depot |  | - | 20 | - | - | - | - | 20 |



|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 350 | Asphalt Grinder Attachement (Skid Steer Loader) Oshawa/Whitby Depot |  | - | - | - | 8 | - | - | 8 |
| 351 | Hybrid Van - Oshawa/Whitby Depot |  | - | 17 | - | - | - | - | 17 |
| 352 | Sidewalk Plow/Snowblower - Oshawa/Whitby Depot |  | - | - | - | - | - | 50 | 50 |
| 353 | Snow Blower for skid steer loader - Oshawa/Whitby Depot |  | - | 10 | - | - | - | - | 10 |
| 354 | Street Flusher - Oshawa/Whitby Depot |  | - | - | - | 117 | - | - | 117 |
| 355 | Street Sweeper attachment for Roadside Mower/Tractor Oshawa/Whitby Depot |  | - | 8 | - | - | - | - | 8 |
| 356 | Tandem Axle Truck - Oshawa/Whitby Depot |  | - | - | - | - | - | 83 | 83 |
| 357 | Vactor 2100 - Oshawa/Whitby Depot |  | 395 | - | - | - | - | - | - |
| 358 | 3/4 Ton Pick Up - Scugog Depot |  | - | 28 | - | - | - | - | 28 |
| 359 | Backhoe with Breaker Attachment - Sunderland Depot |  | - | 125 | - | - | - | - | 125 |
| Vehicle | les Subtotal |  | 395 | 509 | 28 | 153 | 56 | 217 | 963 |

## Provides al lising for all projects within hes 2023 budget and dine.eyear capital forecast. See Appendix C tor financing delalis for cappita projects proosesd in 2023



Provides alisiting for all projects witin the 2023 uduget and inineyear capital forecast See Appendix C tor financing dealis for capitil projects proposed in 2023.

|  | Durham <br> Budget | Expenditure Category | 2023 Proposed Budget | 2024 | 2025 | 2026 | 2027 | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 372 | Asset Condition Assessment/ investigation on trunk sanitary sewer/forcemain system |  | - | 200 | 200 | 200 | 200 | 1,000 | 1,800 |
| 373 | Climate Change Strategy Allowance |  | - | 300 | - | - | - | 200 | 500 |
| 374 | Allowance for Vulnerability Assessments for Water Pollution Control Plants |  | - | 350 | - | 350 | - | - | 700 |
| 375 | Allowance for acquisition of easements |  | 100 | 100 | 100 | 100 | 100 | 500 | 900 |
| 376 | Allowance for engineering studies |  | 150 | 150 | 150 | 150 | 150 | 750 | 1,350 |
| 377 | Phosphorus Reduction Study for Lake Simcoe Water Pollution Control Plants. |  | - | - | - | - | 250 | - | 250 |
| 378 | Preliminary engineering |  | 100 | 100 | 100 | 100 | 100 | 500 | 900 |
| 379 | Allowance for sundry extensions as per Council policy |  | 15 | 15 | 15 | 15 | 15 | 75 | 135 |
| 380 | Allowance for unknown requirements |  | 100 | 100 | 100 | 100 | 100 | 500 | 900 |
| 381 | Allowance for land severance review and drawing requirements |  | 100 | 100 | 100 | 100 | 100 | 500 | 900 |
| 382 | Allowance for Regional share for works in conjunction with residential subdivision development |  | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 | 18,000 |
| 383 | Allowance for Regional share for works in conjunction with non-residential development |  | 500 | 500 | 500 | 500 | 500 | 2,500 | 4,500 |
| 384 | Allowance for intensification |  | 350 | 350 | 350 | 350 | 350 | 1,750 | 3,150 |
| Allowa | ances \& Other Provisions Subtotal |  | 5,315 | 5,865 | 4,415 | 4,765 | 4,665 | 23,075 | 42,785 |

## 



* Rows and columns may not add due to rounding
** Pre-construction capital financing includes expenditures for land purchases, utility relocates, preliminary studies, design, etc.
${ }^{* * *}$ Projects with regularly recurring expenditures include allowances, machinery and equipment, information technology, vehicles and furniture and fixtures, etc. do not include separate pre-construction and construction capital financing
**** Appendix D includes financing of the following development charge shortfalls as follows:

|  | $\mathbf{2 0 2 3}$ | $\mathbf{2 0 2 4}$ | $\mathbf{2 0 2 5}$ | $\mathbf{2 0 2 6}$ | $\mathbf{2 0 2 7}$ | $\mathbf{2 0 2 8 - 2 0 3 2}$ | Grand Total |
| ---: | ---: | :---: | :---: | :---: | :---: | ---: | ---: | ---: |
| DC Shortfall |  |  |  |  |  |  |  |
| Residential DC Shorffall | - | 97,362 | 59,557 | 69,298 | 12,000 | 146,982 | 385,199 |
| Commercial DC Shorffall | - | - | - | - | - | 14,442 | 14,442 |
| Institutional DC Shorffall | 169 | 622 | 461 | 454 | 245 | 1,637 | 3,588 |
| Industrial DC Shorffall | 10,215 | 16,002 | 26,555 | 29,249 | 9,385 | 109,392 | 200,798 |
| Total DC Shortfall | $\mathbf{1 0 , 3 8 4}$ | $\mathbf{1 1 3 , 9 8 6}$ | $\mathbf{8 6 , 5 7 3}$ | $\mathbf{9 9 , 0 0 1}$ | $\mathbf{2 1 , 6 3 0}$ | $\mathbf{2 7 2 , 4 5 3}$ | $\mathbf{6 0 4 , 0 2 7}$ |
|  |  |  |  |  |  |  |  |
| Shortfall Financing Source |  |  |  |  |  |  |  |
| Rate Stabilization Reserve Fund - Sewer | - | 58,469 | 22,439 | - | - | 55,284 | 136,192 |
| Debenture - DC Funded | - | 38,893 | 52,177 | 69,298 | 12,000 | 106,140 | 278,508 |
| User Rate | 10,384 | 16,624 | 11,957 | 29,703 | 9,630 | 111,029 | 189,327 |
| Total Funding | $\mathbf{1 0 , 3 8 4}$ | $\mathbf{1 1 3 , 9 8 6}$ | $\mathbf{8 6 , 5 7 3}$ | $\mathbf{9 9 , 0 0 1}$ | $\mathbf{2 1 , 6 3 0}$ | $\mathbf{2 7 2 , 4 5 3}$ | $\mathbf{6 0 4 , 0 2 7}$ |

## UTILITY FINANCE

Responsible for customer service and support for the Region's water supply and sanitary sewerage programs including customer billing, analysis and collections


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2023 Utility Finance Capital Projects
2023 - 2032 Utility Finance Capital Forecast

## Major Programs and Services

## Utility Finance

## Customer Services

Collect water and sanitary sewer user rate revenues and provide an efficient and effective customer service operation that meets the needs of our customers and maintains the Region's positive image.

## Billing and Analysis

Invoice customers for water and sanitary sewer services provided by the Region of Durham as well as completing all meter reading, accounting transactions, revenue analysis and reporting requirements.

## Headquarters Shared Cost - Utility Finance

The allocated share of costs attributable to Utility Finance for the operation of Regional Headquarters facility.

## Strategic Priorities

For 2023 key priorities and planned actions focus on:

## Service Excellence



Enhance meter reading activities through the transition to full reading for all billings. Meter reader-based readings will replace customer readings used for billings. This will reduce the cost of meter reading and improve the accuracy of billings by eliminating estimated readings. Continued upgrading of outdated water meter reading devices to Radio Frequency (RF) throughout the Region over a three-year period (2022 to 2024) will allow for improvements to meter reading efficiency and help to support the full reading transition.

Expand monthly billing for the largest industrial, commercial, and institutional water and sanitary sewerage customers to better understand customer requirements and support long-term planning.

## Strategic Priorities Continued

Champion paper-less billing by migrating customers to MyDurhamWater - the state-of-the-art online customer portal

## Key Targets for 2023

- Process and issue over 750,000 water supply and sanitary sewer customer billings
- 42,000 customers currently enrolled in MyDurhamWater - approximately 22\% of total customers. MyDurhamWater enrollments are expected to grow to over 60,000 or 30\% of total customers by 2024.
- Issue over 60,000 paperless e-bills through MyDurhamWater
- Provide customer services to water and sanitary sewer customers, including responding to over 90,000 telephone inquiries and 40,000 emails
- 13,000 : 1 - ratio of accounts per customer service staff
- Expand meter reader annual residential readings from 178,000 in 2022 to over 712,000 with the transition to full reading


## Financial Details: Summary by Account (\$,000's)

Provides the gross expenditures and revenues - including both operating and capital - and the resulting net user rate requirement

| Durham Budget | 2022 Estimated Actuals | 2022 Approved Budget | 2023 Proposed Budget | Variance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Expenses |  |  |  |  |  |
| Operating Expenses |  |  |  |  |  |
| Personnel Expenses | 3,756 | 4,015 | 4,114 |  |  |
| Personnel Related | 21 | 24 | 24 |  |  |
| Communications | 1,348 | 1,264 | 1,186 |  |  |
| Supplies | 41 | 54 | 54 |  |  |
| Computer Maintenance \& Operations | 723 | 672 | 742 |  |  |
| Materials \& Services | 5 | 20 | 16 |  |  |
| Equipment Maintenance \& Repairs | 4 | 17 | 17 |  |  |
| Vehicle Operations | 31 | 34 | 34 |  |  |
| Professional Services | 50 | 110 | 70 |  |  |
| Contracted Services | 399 | 450 | 503 |  |  |
| Financial Expenses | 20 | 34 | 34 |  |  |
| Minor Assets \& Equipment | 4 | 4 | 4 |  |  |
| Contribution to Reserves / Reserve Funds | 60 | 60 | 80 |  |  |
| Headquarters Shared Costs | 346 | 346 | 361 |  |  |
| Gross Operating Expenses | 6,808 | 7,104 | 7,239 | 135 | 1.9\% |
| Capital Expenses |  |  |  |  |  |
| New | - | - | 32 |  |  |
| Replacement | 3,422 | 3,422 | 3,433 |  |  |
| Capital Expenses Subtotal | 3,422 | 3,422 | 3,465 | 43 | 1.3\% |
| Total Expenses | 10,230 | 10,526 | 10,704 | 178 | 1.7\% |
| Revenues and Financing |  |  |  |  |  |
| Operating Revenue |  |  |  |  |  |
| Late Payment Charge | (393) | (575) | (575) |  |  |
| Fees \& Service Charges | (686) | (675) | (699) |  |  |
| Sundry Revenue | (83) | (133) | (109) |  |  |
| Operating Revenue Subtotal | $(1,162)$ | $(1,383)$ | $(1,383)$ | - | 0.0\% |

## Financial Details: Summary by Account (\$,000's)

Provides the gross expenditures and revenues - including both operating and capital - and the resulting net user rate requiremen

| (\%) | 2022 Estimated Actuals | 2022 Approved Budget | 2023 Proposed Budget | Variance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Capital Financing |  |  |  |  |  |
| Recovery Reserves/Reserve Funds Capital | $(3,393)$ | $(3,393)$ | $(3,413)$ |  |  |
| Capital Financing Subtotal | $(3,393)$ | $(3,393)$ | $(3,413)$ | (20) | (0.6\%) |
| Total Revenues and Financing | $(4,555)$ | $(4,776)$ | $(4,796)$ | (20) | (0.4\%) |
| User Rate Requirement Utility Finance | 5,675 | 5,750 | 5,908 | 158 | 2.7\% |

## Financial Details: Summary by Program (\$,000's)

## Provides the total operating expense, capital expense, subsidy, other revenue and the resulting user rate requirement for each major program and service

| (2) Durham | 2022 | 2022 Approved Budgets |  |  |  |  | 2023 Proposed Budgets |  |  |  |  | Variance |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Estimated Actuals | Operating Expenses | Gross Capital | Subsidy Funding | Other <br> Funding | Approved Budget | Operating Expenses | Gross Capital | Subsidy <br> Funding | Other Funding | Proposed Budget | \$ | \% |
| Utility Finance |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 Customer Service | 1,322 | 2,652 | 14 | - | $(1,383)$ | 1,283 | 2,761 | 10 | - | $(1,383)$ | 1,388 | 105 |  |
| 2 Billing and Analysis | 4,007 | 4,106 | 3,408 | - | $(3,393)$ | 4,121 | 4,118 | 3,455 | - | $(3,413)$ | 4,160 | 39 |  |
| 3 Headquarters Shared Cost - Utility Finance Portion | 346 | 346 | - | - | - | 346 | 360 |  | - | - | 360 | 14 |  |
| Utility Finance Subtotal | 5,675 | 7,104 | 3,422 | - | $(4,776)$ | 5,750 | 7,239 | 3,465 | - | (4,796) | 5,908 | 158 | 2.7\% |
| User Rate Requirement Utility Finance | 5,675 | 7,104 | 3,422 | - | $(4,776)$ | 5,750 | 7,239 | 3,465 | - | $(4,796)$ | 5,908 | 158 | 2.7\% |

* Note: Utility Finance is funded 50 per cent by Water Supply and 50 per cent by Sanitary Sewerage


## Financial Details: Summary of Capital ( $\$, 000$ 's)

Provides a summary of the current year capital budget, nine-year capital forecast and proposed financing summarized by asset type. See Appendices for specific capital projects

| Durham <br> Budget | $\stackrel{\sim}{2}$ | 2022 <br> Approved <br> Budget | 2023 <br> Proposed Budget | 2024 |  | Forecast |  | 2028-2032 | Forecast Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 2026 | 2027 |  |  |
| Utility Finance |  |  |  |  |  |  |  |  |  |
| Capital Expenditures |  |  |  |  |  |  |  |  |  |
| Inforrmation Technology |  | 29 | 52 | 16 | 16 | 20 | 16 | 118 | 186 |
| Machinery \& Equipment |  | 3,333 | 3,333 | 3,334 | - | - | - | - | 3,334 |
| Vehicles |  | 60 | 80 | 80 | - | - | 80 | 240 | 400 |
| Capital Expenditure Subtotal |  | 3,422 | 3,465 | 3,430 | 16 | 20 | 96 | 358 | 3,920 |
| Capital Financing |  |  |  |  |  |  |  |  |  |
| Reserves / Reserve Funds |  | 3,393 | 3,413 | 3,414 | - | - | 80 | 240 | 3,734 |
| User Rate |  | 29 | 52 | 16 | 16 | 20 | 16 | 118 | 186 |
| Capital Financing Subtotal |  | 3,422 | 3,465 | 3,430 | 16 | 20 | 96 | 358 | 3,920 |
| Total Capital Utility Finance |  | 3,422 | 3,465 | 3,430 | 16 | 20 | 96 | 358 | 3,920 |

Details of Budget Changes
Strategic Investments: Utility Finance
New position - Senior Accounting Clerk (1.0 FTE) effective July 1, 2023. Additional details are ..... (\$000's)
provided in the Staffing Details section ..... 47
Increase in reserve fund contribution to accelerate the adoption of electric vehicles ..... 20
Year two of a three year capital provision to upgrade water meters with remote radio frequencydevices to enable meters to be read without physical contact with the customer's premise. Upgradewill improve customer service with more frequent meter reading and up-to-date data for billingpurposes. This project is being delivered in collaboration with the Works Department and the secondyear cost of $\$ 3.3$ million is being funded from the Water Rate Stabilization Reserve Fund
Net increase in capital investment - see detailed project listing in Appendix A ..... 23
Strategic Investments: Utility Finance Subtotal ..... 90
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Line-by-line review savings ..... (362)
Inflationary increases ..... 364
Increase in Utility Finance's share of costs for the operation and maintenance of Regional ..... 14

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Net Changes: Utility Finance ..... 158
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Utility Finance Full Time Equivalents ..... (FTE's)
2022 Approved Complement ..... 36.5
Proposed New Positions
Senior Accounting Clerk to provide additional support for customer high billing investigations ..... 1.0
Total Proposed New Positions ..... 37.5
Utility Finance Subtotal ..... 37.5
Total Complement: Utility Finance ..... 37.5

## Looking Forward

As part of the Region's commitment to provide exceptional value to Durham user rate payers through responsive and effective customer service delivery the Region continues to promote its online customer portal - MyDurhamWater - to provide enhanced water and sewer billing customer services.
In 2023, the Region will enhance customer service delivery with the transition to full meter reading for all billings. This shift from using customer meter readings to a more automated collection of readings by Meter Readers will increase accuracy and efficiency. To support the transition to full reading, the Region is continuing to advance its three-year project (2022 to 2024) to retrofit existing water meters with radio frequency remote reading devices (RF) to eliminate manual meter readings. The total estimated cost of this initiative over the three year period is $\$ 10.0$ million with funding being provided from the Water Rate Stabilization Reserve Fund. This is a significant enhancement from a customer service perspective and has been much anticipated as the follow up step to the MyDurhamWater project.


## Appendix B: 2023-2032 Utility Finance Capital Forecast (\$,000's)

Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2023


| Utility Finance |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Information Technology |  |  |  |  |  |  |  |
| Laptop Computer | 22 | 16 | 16 | 20 | 16 | 88 | 156 |
| Neptune360 Tablets | 20 | - | - | - | - | 20 | 20 |
| Neptune Remote Readers | 10 | - | - | - | - | 10 | 10 |
| Information Technology Subtotal | 52 | 16 | 16 | 20 | 16 | 118 | 186 |
| Machinery \& Equipment |  |  |  |  |  |  |  |
| Water Meter Upgrades | 3,333 | 3,334 | - | - | - | - | 3,334 |
| Machinery and Equipment Subtotal | 3,333 | 3,334 | - | - | - | - | 3,334 |
| Vehicles |  |  |  |  |  |  |  |
| Meter Reading Electric Vehicle | 80 | 80 | - | - | 80 | 240 | 400 |
| Vehicles Subtotal | 80 | 80 | - | - | 80 | 240 | 400 |
|  |  |  |  |  |  |  |  |
| Utility Finance Subtotal | 3,465 | 3,430 | 16 | 20 | 96 | 358 | 3,920 |
| Total <br> Utility Finance | 3,465 | 3,430 | 16 | 20 | 96 | 358 | 3,920 |

## D Durham <br> DURHAM REGION Budget

## CORPORATE ITEMS

## WATER SUPPLY AND SANITARY SEWERAGE

Corporate costs required to support the on-going operation of the Water Supply and Sanitary Sewerage systems


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## Major Programs and Services

## Corporate Items - Water Supply

Providing financial assets and corporate resources to support the ongoing operation of the water supply system. This includes funds required for asset management of the Region's water supply infrastructure, debt servicing costs and corporate costs to support the Region's water supply services including human resources, finance, and information technology.

## Corporate Items - Sanitary Sewerage

Providing financial assets and corporate resources to support the ongoing operation of the sanitary sewerage system. This includes funds required for asset management of the Region's sanitary sewerage infrastructure, debt servicing costs and corporate costs to support the Region's sanitary sewerage services including human resources, finance, and information technology.

## Strategic Priorities

For 2023 key priorities and planned actions focus on:

## Service Excellence

Responsible management of Regional assets to ensure uninterrupted support to the water supply and sanitary sewerage system.

## Key Targets for 2023

- Continue to increase financing available for the rehabilitation and renewal of the Region's infrastructure in alignment with the Asset Management Plan and prudent asset management practices to maximize the value of assets over their life cycle
- Provide corporate resources to support the operation of the water supply system, effectively serving approximately 184,950 water customers, a $1.00 \%$ increase in water customers over 2022 actuals
- Provide corporate resources to support the operation of the sanitary sewerage system, effectively serving approximately 180,179 sewer customers, a $1.05 \%$ increase in sewer customers over 2022 actuals


## Financial Details: Summary by Account (\$,000's)

Provides the gross expenditures and revenues - including both operating and capital - and the resulting net user rate requiremen

| (2) Durham | 2022 Estimated Actuals | 2022 Approved Budget | 2023 Proposed Budget | \$ Varia | \% |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Expenses |  |  |  |  |  |
| Operating Expenses |  |  |  |  |  |
| Communications | 50 | 88 | 72 |  |  |
| Debt Charges | 14,339 | 14,339 | 13,406 |  |  |
| Professional Services | 197 | 225 | 222 |  |  |
| Financial Expenses | 1,383 | 1,486 | 1,576 |  |  |
| Contribution to Reserves / Reserve Funds | 19,064 | 19,064 | 19,491 |  |  |
| Operating Expenses Subtotal | 35,033 | 35,202 | 34,767 | (435) | (1.2\%) |
| Internal Transfers \& Recoveries |  |  |  |  |  |
| Net Corporate Charge | 8,617 | 8,617 | 8,901 |  |  |
| Internal Transfers \& Recoveries Subtotal | 8,617 | 8,617 | 8,901 | 284 | 3.3\% |
| Total Expenses | 43,650 | 43,819 | 43,668 | (151) | (0.3\%) |
| Revenues and Financing |  |  |  |  |  |
| Operating Revenue |  |  |  |  |  |
| DC Revenues - for Debt Charges | $(9,633)$ | $(9,633)$ | $(9,526)$ |  |  |
| Operating Revenue Subtotal | $(9,633)$ | $(9,633)$ | $(9,526)$ | 107 | 1.1\% |
| Total Revenues and Financing | $(9,633)$ | $(9,633)$ | $(9,526)$ | 107 | 1.1\% |
| User Rate Requirement <br> Corporate Items - Water Supply and Sanitary Sewerage | 34,017 | 34,186 | 34,142 | (44) | (0.1\%) |

## Financial Details: Summary by Program (\$,000's)

| Durham Budget | 2022 | 2022 Approved Budgets |  |  |  |  | 2023 Proposed Budgets |  |  |  |  | Variance |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Estimated <br> Actuals | Operating Expenses | Gross <br> Capital | Subsidy Funding | Other <br> Funding | Approved Budget | Operating <br> Expenses | Gross Capital | Subsidy Funding | Other <br> Funding | Proposed <br> Budget | \$ | \% |
| Corporate Items - Water Supply | 13,835 | 14,355 |  | - | (437) | 13,918 | 14,807 |  | - | (437) | 14,370 | 452 | 3.2\% |
| Corporate Items - Sanitary Sewerage | 20,182 | 29,464 |  | - | $(9,196)$ | 20,268 | 28,861 |  |  | $(9,089)$ | 19,772 | (496) | (2.4\%) |
| User Rate Requirement <br> Corporate Items - Water Supply and Sanitary Sewerage | 34,017 | 43,819 |  |  | $(9,633)$ | 34,186 | 43,668 |  |  | $(9,526)$ | 34,142 | (44) | (0.1\%) |

Details of Budget ChangesBase Adjustments: Corporate Items - Water Supply and Sanitary SewerageEconomic increases61
Inflationary increases ..... 518
Line-by-line review savings ..... (19)
Annualization of the Water and Sewer portion of the annual licensing, consulting and cloud hosting ..... 223 fees for Maximo, the Region's maintenance management system
Decrease in debt servicing costs funded by user rates resulting from the retiring of sewer debt for incinerators for the Region's water pollution control plants ..... (827)
Base Adjustments: Corporate Items - Water Supply and Sanitary Sewerage Subtotal ..... (44)
Net Changes: Corporate Items - Water Supply and Sanitary Sewerage(44)

## Looking Forward

The Corporate Items program (water supply and sanitary sewerage) is instrumental in delivering on the Region's commitment to provide exceptional value to Durham taxpayers in a responsive, effective and fiscally sustainable manner by supporting the on-going operation of critical infrastructure and the provision of front-line services to residents.
It is anticipated that debt levels and associated debt servicing costs will be increasing over the ten-year forecast, both to fund the current ten-year capital forecast but also for the currently undetermined impact of Bill 23.

