# Durham<br/>Budget2023 BUSINESS PLANS<br/>AND BUDGETS

# CONSOLIDATED WATER SUPPLY AND SANITARY SEWERAGE

Works Department – Water Supply and Sanitary Sewerage

**Utility Finance** 

**Corporate Items** 

## Presented to Finance and Administration Committee on December 13, 2022



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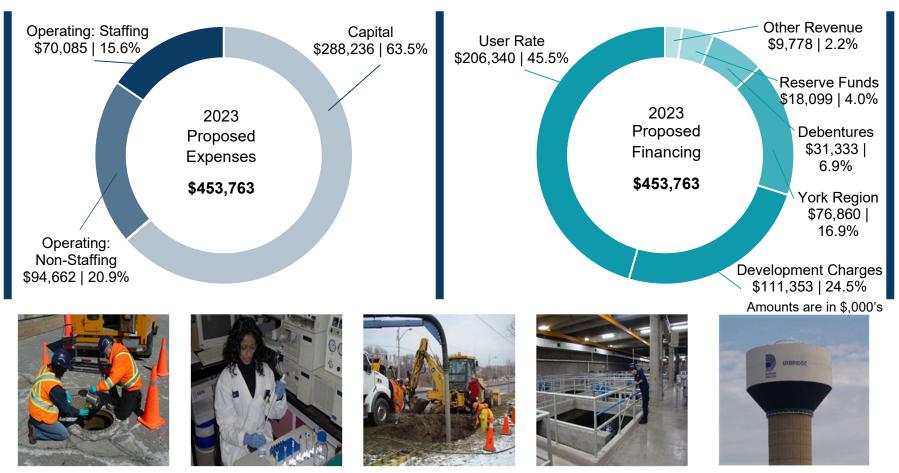
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## **WORKS DEPARTMENT** WATER SUPPLY & SANITARY SEWERAGE SYSTEM

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**

#### 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

Durham 800	2022 Estimated Actuals	2022 Restated Budget	2023 Proposed Budget	Variance		
Budget R				\$	%	
enses						
erating 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			
erating Expenses Subtotal	145,516	148,883	161,812	12,929	8	

## 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	0000 Destated Dudwat	0000 Draws and Dudwat	Variance		
Durham 82	2022 Estimated Actuals	2022 Restated Budget	2023 Proposed Budget	\$	%	
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%)	

Durham 🕄	2022 Estimated Actuals	2022 Restated Budget	2023 Proposed Budget	Variance		
Durham & Solution		2022 Restated Dudget	2023 Proposed Budget	\$	%	
bital 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)			
ital Financing Subtotal	(188,800)	(188,799)	(201,476)	(12,677)	(6.	
al Revenues and Financing	(228,592)	(227,644)	(247,423)	(19,779)	(8.	
al Revenues and Financing er Rate Requirement rks Department - Water Supply System	(228,592) 191,575	(227,644) 195,890	(247,423) 206,340	(19,779) 10,450		

## 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

Durham 🕄	2022		2022	Approved B	udgets			2023 F	Proposed B	udgets		Varia	nce
Durham 8000000000000000000000000000000000000	Estimated	Operating	Gross	Subsidy	Other	Approved	Operating	Gross	Subsidy	Other	Proposed	\$	%
Budgot (	Actuals	Expenses	Capital	Funding	Funding	Budget	Expenses	Capital	Funding	Funding	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	
<ul> <li>Headquarters Shared Cost - Works -</li> <li>Water Supply System Portion</li> </ul>	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 Sys	tem												
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)

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

🔊 Durham 🛛 🕄	2022		2022	Approved B	udgets			2023 F	Proposed B	udgets		Varia	nce
Budget 82	Estimated Actuals	Operating Expenses	Gross Capital	Subsidy Funding	Other Funding	Approved Budget	Operating Expenses	Gross Capital	Subsidy Funding	Other 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 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 🕄	2022	2023			Forec	ast		
Durham 82	Approved Budget	Proposed Budget	2024	2025	2026	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 🕄	2022	2023			Forec	ast				
Durham 8000000000000000000000000000000000000	Approved Budget	Proposed Budget	2024	2025	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

Durham 🕄	2022	2022 2023 Forecast								
Budget	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		
<b>Total Capital</b> 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** 2023 Impact Strategic Investments: Water Supply System (\$ 000's) New positions not captured below – details of the 3.026 FTEs are provided in Staffing Details. 2024 183 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 (\$12,667k) and design of the expansion to the Ajax Depot (\$1,667k). 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 1.488 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 113 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 \$36k Integrated security capital project to replace the security control panels and programming at all 310 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 441 project listing in Appendix B Strategic Investments: Water Supply System Subtotal 2,724

Details of Budget Changes Continued	
Base Adjustments: Water Supply System	<b>2023 Impact</b> (\$ 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	<b>2023 Impact</b> (\$ 000's)
New positions not captured below – details of the 2.773 FTEs are provided in Staffing Details. 2024 annualized impact of \$195k	162
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 (\$12,667k) and design of the expansion to the Ajax Depot (\$1,667k). 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 \$40k	168
Integrated security capital project to replace the security control panels and programming at all regional facilities to meet the new facility standard	336
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	2,540
Strategic Investments: Sanitary Sewerage System Subtotal	3,206

#### **Details of Budget Changes** *Continued* 2023 Impact Base Adjustments: Sanitary Sewerage System (\$ 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 46 **Regional Headquarters** Base Adjustments: Sanitary Sewerage System Subtotal 3,164 6,370 Net Changes: Sanitary Sewerage System Subtotal

Net Changes: Works Department - Water Supply and Sanitary Sewerage System	10,450
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\*Note that impacts are net of recoveries

## **Staffing Details**

2022 Approved Complement (Restated)

Water Supply

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Proposed New Positions	
Supervisor - to monitor, develop, schedule and manage the various positions pertaining to the development of the Region's centralized Utility Locate program.	
Supervisor DCAM - to support increase in project delivery for depots, sewage treatment plants and water pumping stations, and major capital projects supporting corporate priorities (Note: this position is shared with Sanitary Sewerage, Works General Tax and Waste Management)	
Emergency Management Coordinator - to support emergency management programs and initiatives corporately and departmentally as a dedicated liaison with Durham Emergency 0.250 Management (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: 0.530 this position is shared with Sanitary Sewerage)	
Works Technician 5 - to support the vertical group in the delivery of capital projects (Note: 0.530 this position is shared with Sanitary Sewerage)	
Inspector 3 - to support the projects in the Construction Division and reduce reliance on consulting services and temporary staff (Note: this position is shared with Sanitary 0.385 Sewerage and Works General Tax)	
Total Proposed New Positions	<u>4.306</u>
Water Supply Subtotal	208.354

Full Time Equivalents (FTE's)

<u>204.048</u>

Sanitary Sewerage	Full Time E	<b>quivalents</b> (FTE's)
2022 Approved Complement (Restated)		<u>278.793</u>
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 (Note: this position is shared with Water Supply, Works General Tax and Waste Management)	0.386	
Emergency Management Coordinator - To support emergency management programs and initiatives corporately and departmentally as a dedicated liaison with Durham Emergency Management (Note: this position is shared with Water Supply, Works General Tax and Waste Management)	0.250	
Business Analyst - to provide business support for the Enterprise Maintenance Management System (Note: this position is shared with Water Supply and Works General Tax)	0.310	
Junior Project Engineer (2 positions) - to support the vertical group in the delivery of capital projects (Note: these 2 positions are shared with Water Supply)	0.940	
Works Technician 2 - to provide CAD support to the vertical and linear project teams (Note: this position is shared with Water Supply)	0.470	
Works Technician 5 - To support the vertical group in the delivery of capital projects (Note: this position is shared with Water Supply)	0.470	
Inspector 3 - to support the projects in the Construction Division and reduce reliance on consulting services and temporary staff (Note: this position is shared with Water Supply and Works General Tax)	0.257	
Total Proposed New Positions		<u>3.083</u>
Sanitary Sewerage Subtotal		281.876

Total Complement: Works Department - Water Supply and Sanitary Sewerage

490.230

Full Time Equivalents

## 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 3,650-3,700Mhz 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 5G 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.

Appendix A: 2023 Water Supply Syst Provides financing details for capital projects propo				ensive 2023 ca	apital budget and :	2024-2032 fore	cast								
							Proposed Fina	ncing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Total Project to 2032
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 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 R.R. 56 (Farewell St.) from Harbour Rd. to Bloor St., Oshawa	-	-	-	-	-	-	-	-	-	-	800	800	200	-	1,000
Replacement of watermain on R.R. 56 21 (Farewell St.) from Canadian National Railway to Bloor St., Oshawa	-	-	-	-	-	-	-	-	-	-	385	385	830	-	1,215
Area Municipality Road Program - 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 - 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

Appendix A: 2023 Water Supply Syst Provides financing details for capital projects propo	em Capit	al Projects (\$ See Appendix B	, <b>000's)</b> for the compreh	ensive 2023 ca	apital budget and	2024-2032 fore	cast								
						2023	Proposed Final	ncing				2023	Proposed		Total
Durham Budget 82	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Total Project to 2032
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 41 deficiencies independent of road programs in various locations	-	-	-	-	-	-	-	-	-	-	400	400	-	7,800	8,200
42 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 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 Erosion protection Crystal Beach Boulevard watermain, Whitby	-	-	-	-	-	-	-	-	-	-	500	500	544	5,000	6,044
69 Replacement of watermain on High St. from Mary St. to Walnut St., Whitby	-	-	-	-	-	-	-	-	-	-	260	260	465	-	725

Appendix A: 2023 Water Supply Syst Provides financing details for capital projects propo	em Capit	al Projects (\$, . See Appendix B	, <b>000's)</b> for the compreh	ensive 2023 ca	pital budget and :	2024-2032 fore	cast								
							Proposed Fina	ncing				2023	Proposed	_	Total
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
71 Replacement of watermain on Belton Crt. from Michael Blvd. to S/L, Whitby	-	-	-	-	-	-	-	-	-	-	1,000	1,000	90	-	1,090
73 Replacement of watermain on Mary St. from Rossland Rd. to Robert St., Oshawa	-	-	-	2,335	-	-	-	-	-	-	-	2,335	40	-	2,375
74 Replacement of watermain on Simcoe St. from Metcalf St. to Quebec St., Oshawa	-	-	-	1,300	-	-	-	-	-	-	-	1,300	691	-	1,991
Replacement of a watermain on Simcoe St. 78 South and easement from Erie St. to Albert St., Oshawa	-	-	-	135	-	-	-	-	-	-	-	135	565	-	700
79 Replacement of a watermain on Olive Ave. from Simcoe St. to Drew St., Oshawa	-	-	-	-	-	-	-	-	-	-	385	385	2,150	-	2,535
Replacement of watermain on Highway No. 2 82 (King St. W.) from Midtown Dr. to Queen St., Oshawa	-	-	-	-	-	-	-	-	-	-	100	100	-	400	500
89 Replacement of a watermain on Ritson Rd. from Annis St. to Conant St., Oshawa	-	-	-	-	-	-	-	-	-	-	290	290	100	-	390
90 Replacement of a watermain on Douglas St. from Conant St. to Wolfe St., Oshawa	-	-	-	-	-	-	-	-	-	-	340	340	100	-	440
91 Replacement of watermain on Conant St. from Myers Rd. to Nelson St., Oshawa	-	-	-	_	_	-	_	-	-	_	100	100	-	390	490
<ul> <li>Replacement of watermain on Bigelow St. from 140 m north of Kellett St. to Kellett St.,</li> <li>103 Kellett St. from Bigelow St. to Simcoe St.,</li> <li>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</li> </ul>	-	-	-	440	-	-	-	-	-	-	-	440	300	-	740

Provides financing details for capital projects propos					Decement										
Durham & Solution	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Proposed Finan Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	2023 Proposed Budget	Proposed Funding Prior to 2023	Forecast 2024-2032	Total Project to 2032
109 Replacement of watermain on Jane St. from Ida St. to 220 m north of Ida St., Sunderland	-	-	-	775	-	-	-	-	-	-	-	775	200	-	97
110 Replacement of watermain on Maple St. from River St. to dead-end, Sunderland	-	-	-	146	-	-	-	-	-	-	-	146	135	-	28
113 Replacement of watermain on Centre St. from Mara Rd. to James St., Beaverton	-	-	-	50	_	-	-	_	-	-	_	50	100	650	80
Allowance for the evaluation of feedermains/watermains at creek crossings	-	-	_	-	-	-	-	-	-	-	75	75	-	300	37
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	-	8,80
Zone 2 feedermain on Church St. from south 24 side of the hydro right of way to Taunton Rd., Ajax	_	-	_	-	-	-	92	3,679	_	-	429	4,200	_	_	4,20
Zone 3 feedermain on Conlin Rd. from 31 Anderson St. to Thickson Rd., Whitby (Region's share only)	-	-	-	-	_	-	22	876	-	-	102	1,000	3,135	-	4,13
Zone 3 feedermain on Mid-Block Arterial l32 from Lynde Creek to Ashburn Rd., Whitby (West Loop) (Region's share only)	-	-	-	-	-	-	123	4,906	-	-	571	5,600	5,400	-	11,00
140 Watermain on Britannia Ave. from Thornton Rd. to Windfields Farm Dr., Oshawa	_	-	-	-	-	-	17	657	-	-	77	751	340	1,250	2,34
Watermain on Thornton Rd. from 100 m 43 North of Conlin Rd. within the Northwood Employment Area, Oshawa	-	-	-	-	-	-	3	131	-	-	16	150	2,122	-	2,27
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	60,90

Provides financing details for capital projects propo													Duran		
Durham Budget 82	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Proposed Finar Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	2023 Proposed Budget	Proposed Funding Prior to 2023	Forecast 2024-2032	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 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 - upgrades, Whitby	_		-	-	-	-	38	1,524	-	-	177	1,739	410	-	2,149

Appendix A: 2023 Water Supply Syst Provides financing details for capital projects propo				ensive 2023 ca	apital budget and :	2024-2032 fore	cast								
Durham 69						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
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 190 11 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 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 - 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 Beaverton - additional Water Storage from 2 ML to 4.8 ML	-		-	-	-	-	5	212	-	-	283	500	-	9,000	9,500

Appendix A: 2023 Water Supply System Provides financing details for capital projects propos	em Capit sed in 2023	al Projects (\$ . See Appendix B	<b>,000's)</b> for the compreh	ensive 2023 ca	pital budget and 2	2024-2032 fore	cast								
					·		Proposed Fina	ncing				2023	Proposed		Total
Durham Solution	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
213 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 - 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 1 2 3 4 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

Appendix A: 2023 Water Supply Syst Provides financing details for capital projects propo				ensive 2023 c	apital budget and	2024-2032 fore	cast								
	300 in 2020.						Proposed Fina	ncing				2023	Proposed		Total
Durham 82	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Total Project to 2032
244 Depot Rationalization - New Oshawa/Whitby Depot	-	New	-	-	-	-	-	-	-	12,667	-	12,667	-	-	12,667
248 Depot Rationalization - New Sunderland Depot	_	New	-	_	-	-	-	-	_	1,333	-	1,333	_	-	1,333
Repairs and Epoxy Coat Fleet Bay Concrete 249 Floors & Repairs to Floor Drains in Fleet Bays - Scugog Depot	-	Replacement	-	-	-	-	-	-	-	-	16	16	-	-	16
Buildings & Structures Subtotal		· ·	-	610	-	-	1,547	31,391	-	15,667	18,079	67,294	69,490	322,120	458,904
Machinery & Equipment															
Ajax Water Supply Plant - pump replacement with variable frequency drive	-		-	-	-	-	-	-	-	-	100	100	-	500	600
Ajax Water Supply Plant - hyochlorite feed and control system upgrades	-		_	-	-	-	-	-	-	-	600	600	100	-	700
254 Cherrywood Water Pumping Station upgrades - pumps and feedermain, Pickering	-		-	-	-	-	-	-	-	-	250	250	500	1,800	2,550
Oshawa Water Supply Plant - 261 Replacement/rehabilitation of the sedimentation tanks, Header & Backwash valves, and piping	-		-	-	-	-	-	-	-	-	300	300	550	2,900	3,750
Taunton Rd. Water Pumping Station and 266 Reservoir - station improvements and replacement	-		-	-	-	-	-	-	-	-	500	500	200	2,300	3,000
Beaverton Water Supply Plant - upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch, Standby power, uninterrupted power supply (UPS) and Ultraviolet disinfection system	-		-	-	-	-	-	-	-	-	250	250	750	2,600	3,600
281 Emergency Generator Fuel Tank Compliance upgrades Phase 3 and Phase 4	-		-	-	-	-	-	-	-	-	400	400	17,996	-	18,396

Appendix A: 2023 Water Supply Syst Provides financing details for capital projects propo	em Capit sed in 2023	al Projects (\$ . See Appendix B	<b>,000's)</b> for the compreh	iensive 2023 ca	apital budget and 2	2024-2032 fore	cast								
			·				Proposed Fina	ncing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
282 Replace Uninterrupted Power Supply (UPS) Batteries - Ajax WSP	1	Replacement	-	-	-	-	-	-	-	-	50	50	-	-	50
283 Sulphuric Acid Pump Replacement - Ajax WSP	1	Replacement	-	-	-	-	-	-	-	-	240	240	-	-	240
284 Sump Pump Systems - Ajax WSP	-	Replacement	-	-	-	-	-	-	-	-	122	122	-	-	122
287 Integrated Control Technology - Security Project - Various Locations	-	New	-	-	-	-	-	-	-	-	306	306	_	-	306
297 Pump / Motor / Mixer Repair / Replacement - 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	<u>-</u>	-	3

Provides financing details for capital projects propo	osed in 2023	See Appendix B	for the compret	nensive 2023 ca	apital budget and										
🔊 Durham 🛛 🕄						2023	Proposed Fina	ncing				2023	Proposed	Farrant	Total
DurhamExampleBudgetExample	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	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 Install Isolation Valve - Taunton Rd. Pumping Station	1	Replacement	-	-	-	-	-	-	-	-	50	50	_	-	50
323 Integrated Control Technology - Security 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	-	<u> </u>	-	<u> </u>	-		<u> </u>	<u> </u>	5	5	-		5

Appendix A: 2023 Water Supply System Provides financing details for capital projects propos	em Capit sed in 2023.	al Projects (\$ . See Appendix B	, <b>000's)</b> for the compreh	ensive 2023 c	apital budget and 2	2024-2032 fore	cast								
							Proposed Fina	ncing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
333 Power Laptop	13	New	-	-	-	-	-	-	-	-	16	16	-	-	16
<sup>334</sup> Computers & Monitors Refresh - Financial Services	-	Replacement	_	-	-	-	_	-	<u>-</u>	_	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															
A/V Equipment and Technology Upgrades - Various Locations	1	New	-	-	-	-	-	-	-	-	10	10	-	-	10
Furniture & Fixtures Subtotal			-	-	-	-	-		-	-	10	10			10

Appendix A: 2023 Water Supply Sys Provides financing details for capital projects prop	tem Capit	al Projects (\$ See Appendix B	<b>,000's)</b> for the compreh	ensive 2023 ca	pital budget and 2	2024-2032 fore	cast								
Durham 🕄		New /				2023	Proposed Finar	ncing				2023	Proposed	Format	Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
Allowances & Other Provisions				T unus									2020		
365 Regional Water Supply Master Planning Study for the Regional Official Plan Review	-		-	-	-	-	6	219	-	-	25	250	900	800	1,950
367 Asset Condition Assessments - Reports for Vertical Assets	-		-	100	-	-	-	-	-	-	-	100	1,063	2,086	3,249
368 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 Allowance for sundry extensions as per Council policy - Various	-		-	-	-	-	-	-	-	-	15	15	-	135	150
377 Allowance for unknown requirements	-		-	-	-	-	-	-	-	-	100	100	-	900	1,000
378 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

Appendix A: 2023 Water Supply Sys Provides financing details for capital projects property				ensive 2023 ca	pital budget and 2	2024-2032 fore	cast								
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	2023 Institutional DCs	Proposed Finar Commercial DCs	ncing Residential DCs	Subsidy /Grant	Debenture	User Rate	2023 Proposed Budget	Proposed Funding Prior to 2023	Forecast 2024-2032	Total Project to 2032
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
<b>Total</b> 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:

2023 Reserve Fund

- Asset Management Reserve Fund Water 5,764
- Rate Stabilization Reserve Fund Water 311

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

2023
-
-
130
11,327
11,457

#### Shortfall Financing Source

Rate Stabilization Reserve Fund - Water -Debenture - DC Funded -

User Rate <u>11,457</u> Total Funding <u>11,457</u>

Budget       R       Cat         ater Supply System       Pre-Co         near Infrastructure       Pre-Co         1       R.R. 2A (Centre St) from Athol St. to Adelaide Ave., Oshawa       Pre-Co         2       R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville       Pre-Co         3       R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa       Pre-Co         4       R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington       Pre-Co         5       R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax       Pre-Co         Co       Pre-Co       Co	Total Instruction Instruction Total Instruction Total Instruction Instruction	2024 2024 250 - 250 - 100 -  100 -      	- - - 1,100 1,100		2027 - - - - - - - - - - - - - - - - - - -	2028-2032 - - - - - - - - - - - - - - -	3,10 - 1,10
near Infrastructure       Pre-Co.         1       R.R. 2A (Centre St) from Athol St. to Adelaide Ave.,       Pre-Co.         2       R.R. 14 (Liberty St.) from Baseline Rd. to King St.,       Pre-Co.         2       R.R. 14 (Liberty St.) from Baseline Rd. to King St.,       Pre-Co.         3       R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd.,       Pre-Co.         3       R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd.,       Pre-Co.         4       R.R. 17 (Main St.) from Station St. to Winter Rd.,       Pre-Co.         5       R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave.,       Pre-Co.         5       R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave.,       Pre-Co.	nstruction Total nstruction Total nstruction nstruction Total nstruction nstruction	250 - 100 -  100 -  	- - - 1,100 1,100	- 3,100 3,100 - -	- - - - -	- - - - -	- - - 3,10 3,10 - 1,10 1,10
1R.R. 2A (Centre St) from Athol St. to Adelaide Ave., OshawaPre-Co Co2R.R. 14 (Liberty St.) from Baseline Rd. to King St., BowmanvillePre-Co Co3R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd., OshawaPre-Co Co4R.R. 17 (Main St.) from Station St. to Winter Rd., ClaringtonPre-Co Co5R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., AjaxPre-Co Co	nstruction Total nstruction Total nstruction nstruction Total nstruction nstruction	250 - 100 -  100 -  	- - - 1,100 1,100	- 3,100 3,100 - -	- - - - -	- - - - -	3,10 - 1,10
1       R.R. 2A (Centre St) from Athol St. to Adelaide Ave., Oshawa       Co         2       R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville       Pre-Co         3       R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville       Pre-Co         3       R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa       Pre-Co         4       R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington       Pre-Co         5       R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax       Pre-Co	nstruction Total nstruction Total nstruction nstruction Total nstruction nstruction	250 - 100 -  100 -  	- - - 1,100 1,100	- 3,100 3,100 - -	- - - - -	- - - - -	3,10 - 1,10
Osnawa       Pre-Co         2       R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville       Pre-Co         3       R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville       Pre-Co         3       R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa       Pre-Co         4       R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington       Pre-Co         5       R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax       Pre-Co	Total Instruction Instruction Total Instruction Total Instruction Instruction	250 - 100 -  100 -  	- - - 1,100 1,100	- 3,100 3,100 - -	- - - - -	- - - - -	3,1( - 1,1(
2       R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville       Co         3       R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa       Pre-Co         4       R.R. 16 (Ritson Rd.) from Station St. to Conlin Rd., Oshawa       Pre-Co         4       R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington       Pre-Co         5       R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax       Pre-Co	nstruction nstruction Total nstruction nstruction Total nstruction nstruction	100 -  100 - 	- 1,100 1,100	3,100 - -	-	- - -	3,1 - 1,1
2       R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville       Co         3       R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa       Pre-Co         4       R.R. 16 (Ritson Rd.) from Station St. to Conlin Rd., Oshawa       Pre-Co         4       R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington       Pre-Co         5       R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax       Pre-Co	nstruction Total Instruction Instruction Total Instruction Instruction	 100 - 	- 1,100 1,100	3,100 - -	-	- - -	3,1 - 1,1
<ul> <li>3 R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa</li> <li>4 R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington</li> <li>5 R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax</li> </ul>	nstruction nstruction Total nstruction nstruction		- 1,100 1,100	-	-	-	- 1,1
3       R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa       Condition         4       R.R. 17 (Main St.) from Station St. to Winter Rd., Condition       Pre-Condition         5       R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax       Pre-Condition	nstruction Total nstruction nstruction		1,100			- - -	
Osnawa       Pre-Co         4       R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington       Pre-Co         5       R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax       Pre-Co	Total nstruction nstruction		1,100		-	-	
<ul> <li>4 R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington</li> <li>5 R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax</li> </ul>	nstruction nstruction			-	-	-	1 4
4       R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington       Co         5       R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax       Pre-Co         Co       Co	nstruction						Ι,
<ul> <li>Clarington</li> <li>R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax</li> </ul>			-	-	-	-	
5 R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax Pre-Co			760		-	-	-
5 R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax Co	Total		760	-	-	-	-
Ajax	nstruction		-	-	-	-	
	nstruction		-	-	1,900	-	1,9
6 R.R. 22 (Bloor St.) from east of Harmony Rd. to Grandview St., Oshawa	Total		-	-	1,900	-	1,9
<sup>6</sup> Grandview St., Ośhawa Co		- 100	-	-	-	-	
	nstruction		1,350		-	-	1,:
<b>D</b> . 0.		100 -	1,350	-	-	-	1,:
R R 22 (Victoria St.) from Thickson Rd. to South Blair	nstruction		-	-	-	-	
St., Whitby	nstruction	80 -	-	-	-	-	
	Total nstruction	80 -	-	- 500	-	-	Į
	nstruction		-	500	-	- 2,900	2,9
8 St., Whitby			-	-	-	2,300	۷,۵

Durham 🕄					Forecas	st		
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
D.D. 26 (Thiskeen Dd.)/Mentwerth St. Culvert	Pre-Construction	-	-	-	-	-	-	-
9 R.R. 26 (Thickson Rd.)/Wentworth St. Culvert rehabilitation, Whitby	Construction	-	850	-	-	-	-	850
	Total	-	850	-	-	-	-	850
R.R. 28 (Rossland Rd.) from Park Rd. to Simcoe St.,	Pre-Construction	-	-	-	-	-	-	-
10 Oshawa	Construction	-	-	-	1,100	-	-	1,100
	Total	-	-	-	1,100	-	-	1,100
P. P. 28 (Peopland Pd.) from Pitaon Pd. to Harmony Pd.	Pre-Construction	-	-	-	-	-	-	-
11 R.R. 28 (Rossland Rd.) from Ritson Rd. to Harmony Rd., Oshawa	Construction	-	-	2,380	-	-	-	2,380
	Total	-	-	2,380	-	-	-	2,380
P. P. 20 (Liverneel Pd.) from Highway 401 to Kingston	Pre-Construction	-	-	-	-	-	-	-
12 R.R. 29 (Liverpool Rd.) from Highway 401 to Kingston Rd. (Highway No. 2), Pickering	Construction	-	-	-	-	-	250	250
	Total	-	-	-	· · ·	-	250	250
P. P. 21 (Mastroy Pd.) from Einloy Ave. to Henwood	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>13 R.R. 31 (Westney Rd.) from Finley Ave. to Harwood</li> <li>Ave., Ajax</li> </ul>	Construction	-	-	-	-	-	1,230	1,230
, , , , , , , , , , , , , , , , , , ,	Total	-	-	-	-	-	1,230	1,230
P. P. 26 (Hanking St.) from Consumers Dr. to Dundes	Pre-Construction	-	270	-	-	-	-	270
14 R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby	Construction	-	-	-	150	-	500	650
	Total	-	270	-	150	-	500	920
D.D. 27 (Finch Ave.) from Altone Dd. to Prook Dd	Pre-Construction	-	-	-	-	500	-	500
15 R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd., Pickering	Construction	-	-	-	-	-	6,000	6,000
liokening	Total	-	-	-	-	500	6,000	6,500
D.D. 20 (M/hitas Dd.) from Kingston Dd. Highway 2 to	Pre-Construction	-	-	-	-	-	500	500
16 R.R. 38 (Whites Rd.) from Kingston Rd. Highway 2 to Finch Ave., Pickering	Construction	-	-	-	-	-	2,300	2,300
	Total	-	-	-	-	-	2,800	2,800
D.D. 52 (Thornton Dd.) from King St. to Staller Dr.	Pre-Construction	-	-	-	-	-	-	-
17 R.R. 52 (Thornton Rd.) from King St. to Stellar Dr., Whitby/Oshawa	Construction	-	-	1,330	-	-	-	1,330
Windy, Condivid	Total	-	-	1,330	-	-	-	1,330

Durham 🕄					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
D.D. 52 (Stayonaan Dd.) from Highway 401 to Band St	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St.,</li> <li>Oshawa</li> </ul>	Construction	-	-	-	-	1,430	-	1,430
	Total	-	-	-	-	1,430	-	1,430
R.R. 53 (Stevenson Rd.) from Bond St. to Rossland Rd.,	Pre-Construction	-	-	-	-	-	-	-
19 Oshawa	Construction	-	-	-	-	-	3,800	3,800
	Total	-	-	-	-	-	3,800	3,800
R.R. 56 (Farewell St.) from Harbour Rd. to Bloor St.,	Pre-Construction	-	-	-	-	-	-	-
20 Oshawa	Construction	800	-	-	-	-	-	-
	Total	800	-	-	-	-	-	-
Deplegement of watermain on D.D. E6 (Earowell St.)	Pre-Construction	-	-	-	-	-	-	-
21 Replacement of watermain on R.R. 56 (Farewell St.) from Canadian National Railway to Bloor St., Oshawa	Construction	385	-	-	-	-	-	-
	Total	385	-	-	-	-	 ,430 - ,430 -  - 3,800 - 3,800    	-
D.D. 57 (Dowmonwillo Ave.) from Deceline Dd. to	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>R.R. 57 (Bowmanville Ave.) from Baseline Rd. to</li> <li>Highway No. 2, Bowmanville</li> </ul>	Construction	-	500	-	-	-	-	500
	Total	-	500	-	-	-	-	500
D.D. 59 (Manning Dd.) (Adalaida Ava. interconnection	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>R.R. 58 (Manning Rd.) /Adelaide Ave. interconnection</li> <li>from Garrard Rd. to Thornton Rd., Whitby and Oshawa</li> </ul>	Construction	-	-	-	980	-	-	980
nom Ganaid Nd. to momental, whiley and Oshawa	Total	-	-	-	980	-	-	980
D.D. 50 (Cibb St.) from Staylongon Dd. to Simooo St.	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St.,</li> <li>Oshawa</li> </ul>	Construction	-	-	-	-	-	2,100	2,100
Oshawa	Total	-	-	-	-	-	2,100	2,100
D.D. 50 (Oith 64) (Olive Ave. Extension from Dreve 64 to	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>R.R. 59 (Gibb St)./Olive Ave. Extension from Drew St. to</li> <li>Ritson Rd., Oshawa</li> </ul>	Construction	-	-	-	-	-	430	430
	Total	-	-	-	-	-	430	430
	Pre-Construction	-	-	-	-	-	-	-
26 R.R. 60 (Wentworth St.) from Simcoe St. to Farewell St., Oshawa	Construction	-	665	-	-	-	-	665
	Total	-	665	-	-	-	-	665

Durham 🕄					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	-	-	6,000	6,000
<ul> <li>Allowance for watermains in conjunction with the</li> <li>Regional Road Program</li> </ul>	Construction	-	-	-	-	-	-	-
	Total	-	-	-	-	-	6,000	6,000
Area Municipality Road Program - Replacement of	Pre-Construction	-	275	275	275	275	1,375	2,475
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
<sup>20</sup> works in conjunction with the City of Pickering Road Program	Total	-	275	275	275	275	1,375	2,475
Area Municipality Road Program - Replacement of	Pre-Construction	-	2,100	200	200	200	1,000	3,700
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
<sup>29</sup> works in conjunction with the Town of Ajax Road Program	Total	-	2,100	200	200	200	1,000	3,700
Area Municipality Road Program - Replacement of	Pre-Construction	-	1,350	620	620	620	3,100	6,310
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the Town of Whitby Road Program	Total	-	1,350	620	620	620	3,100	6,310
Area Municipality Road Program - Replacement of	Pre-Construction	900	1,100	1,100	1,100	1,100	5,500	9,900
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the City of Oshawa Road Program	Total	900	1,100	1,100	1,100	1,100	5,500	9,900
Area Municipality Road Program - Replacement of	Pre-Construction	1,385	370	370	370	370	1,850	3,330
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the Municipality of Clarington Road Program	Total	1,385	370	370	370	370	1,850	3,330
Area Municipality Road Program - Replacement of	Pre-Construction	200	229	629	130	130	650	1,768
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the Township of Scugog Road Program	Total	200	229	629	130	130	650	1,768

Durham 🕄		0000 D	Forecast					
Budget S	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Area Municipality Road Program - Replacement of	Pre-Construction	-	270	270	270	270	1,350	2,430
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the Township of Uxbridge Road Program	Total	-	270	270	270	270	1,350	2,430
Area Municipality Road Program - Replacement of	Pre-Construction	-	250	250	250	250	1,250	2,250
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the Township of Brock Road Program	Total	-	250	250	250	250	1,250	2,250
	Pre-Construction	200	200	200	200	200	1,000	1,800
36 Allowance for unknown requirements in conjunction with area municipality road programs	Construction	-	-	-	-	-	-	-
	Total	200	200	200	200	200	1,000	1,800
عر Watermain replacement at Highway 401 and Wilson R	Pre-Construction	-	-	-	-	-	-	-
37 in conjunction with the MTO, Oshawa	Construction	-	3,000	-	-	-	-	3,000
	Total	-	3,000	-	-	-	-	3,000
38 Watermain replacement in conjunction with the Metroli	Pre-Construction	-	-	-	-	-	-	-
38 Toronto East Rail Corridor expansion to Bowmanville	Constituction	-	-	-	3,340	-	-	3,340
	Total	-	-	-	3,340	-	-	3,340
20 Watermain replacement on Park Rd. S. and Cubert St	Pre-Construction	300	-	-	-	-	-	-
39 in conjunction with the MTO, Oshawa	Construction	-	-	-	-	-	-	-
	Total	300	-	-	-	-	-	-
Allowance for watermains in conjunction with the MTO	& Pre-Construction	-	-	200	-	250	1,950	2,400
40 Allowance for watermains in conjunction with the MTO & Go Transit projects	Construction	-	-	-	-	-	-	-
Go Transil projects	Total	-	-	200	-	250	1,950	2,400
Water works to rectify identified system deficiencies	Pre-Construction	-	-	-	-	-	-	-
41 Water works to rectify identified system deficiencies independent of road programs in various locations —	Construction	400	800	800	800	900	4,500	7,800
Independent of road programs in various locations	Total	400	800	800	800	900	4,500	7,800

🔊 Durham 🥂 😳			Forecast						
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Dehebilitation of existing watermains in verieus	Pre-Construction	-	-	-	-	-	-	-	
42 Rehabilitation of existing watermains in various locations.	Construction	2,400	3,000	3,000	3,500	4,000	23,500	37,000	
locations.	Total	2,400	3,000	3,000	3,500	4,000	23,500	37,000	
Replacement of the watermain on Kingston Rd. (Hwy	Pre-Construction	-	-	-	-	-	-	-	
<ul> <li>43 No. 2) from Altona Rd. to Steeple Hill and Rougemount Dr. from Hwy No. 2 to 100 m south, Pickering</li> </ul>	Construction	-	-	-	-	3,000	-	3,000	
	Total	-	-	-	-	3,000	-	3,000	
Deplegement of a watermain on Kingsten Dd. (I bus No	Pre-Construction	-	-	-	-	-	-	-	
<ul><li>44 Replacement of a watermain on Kingston Rd. (Hwy No.</li><li>2) from Steeple Hill to Merritton Rd., Pickering</li></ul>	Construction	2,200	-	-	-	-	-	-	
	Total	2,200	-	-	-	-	-	-	
<ul><li>45 Replacement of a watermain on Kingston Rd. (Hwy No.</li><li>2) from Dixie Rd. to Bainbridge Dr., Pickering</li></ul>	Pre-Construction	-	-	-	-	-	-	-	
	Construction	2,500	-	-	-	-	-	-	
	Total	2,500	-	-	-	-	-	-	
Replacement of watermain on Sandy Beach Rd. from	Pre-Construction	-	-	-	-	-	-	-	
46 300 m north of Alyssum St. to 210 m south of Alyssum	Construction	-	300	-	-	-	-	300	
St., Pickering	Total	-	300	-	-	-	-	300	
Deplecement of a watermain on Bayly St. from	Pre-Construction	-	-	-	-	-	-	-	
47 Replacement of a watermain on Bayly St. from Westshore Blvd. to Mattins Rd., Pickering	Construction	-	-	-	2,800	-	-	2,800	
Westanore Divit. to Mattina r.d., Fickening	Total	-	-	-	2,800	-	-	2,800	
Watermain and value improvements at Drack Dd. and	Pre-Construction	-	-	-	-	-	-	-	
48 Watermain and valve impovements at Brock Rd. and Montgomery Park Rd., Pickering	Construction	-	300	-	-	-	-	300	
Montgomery Fark I.G., Flekening	Total	-	300	-	-	-	-	300	
Dealessant of a materia on Databand Datafaran	Pre-Construction	-	-	-	-	-	100	100	
49 Replacement of a watermain on Brock Rd. from Foldspar Crt. to Clements Rd. Bickgring	Construction	-	-	-	-	-	480	480	
Feldspar Crt. to Clements Rd., Pickering –	Total	-	-	-	-	-	580	580	
	Pre-Construction	-	-	-	-	-	100	100	
50 Replacement of a watermain on Notion Rd. from	Construction	-	-	-	-	-	250	250	
Kingston Rd. to approx. 230 m South, Pickering	Total	-	-	-	-	-	350	350	

BudgetCategoryBudget20242025202620272028-2032Forecast Total51Replacement of a watermain on Alliance Rd. from 20 m North of Bayly St. S. to dead-end, PickeringPre-Construction40040052Replacement of watermain on Krosno Bivd. from Liverpool Rd. E. to Fanshaw Place, PickeringPre-Construction40040053Replacement of watermain on Achilles Rd. from Salem Rd. to 100 m west of Salem Rd., AjaxPre-Construction40040054Replacement of a watermain on Pickering Beach Rd. from Foord Rd. to Hewitt Cres., AjaxPre-Construction6040055Replacement of a watermain on Clements Rd. E. from Burcher Rd. E. to Dryer Dr., AjaxPre-Construction	Durham 🕄	<b>F</b>	0000 D	Forecast						
51       Replacement of a watermain on Alliance Rd. from 20 m North of Bayly St. S. to dead-end, Pickering       Construction       -       -       -       400       400       400         52       Replacement of watermain on Krosno Blvd. from Liverpool Rd. E. to Fanshaw Place, Pickering       Pre-Construction       -	Budget			2024	2025	2026	2027	2028-2032	Forecast Total	
S1       North of Bayly St. S. to dead-end, Pickering       Construction       -       -       -       -       -       400	Depletement of a watermain on Alliance Dd from 20 m	Pre-Construction	-	-	-	-	150	-	150	
Total150400652Replacement of watermain on Krosno Blvd. from Liverpool Rd. E. to Fanshaw Place, PickeringPre-Construction </td <td></td> <td>Construction</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>400</td> <td>400</td>		Construction	-	-	-	-	-	400	400	
	North of Dayly Ot. O. to dead-end, Flokening	Total	-	-	-	-	150	400	550	
S2         Liverpool Rd. E. to Fanshaw Place, Pickering         Construction         -         400         -	Perlagement of watermain on Kreene Plud from	Pre-Construction	-	-	-	-	-	-	-	
Initial-400<	<sup>52</sup> Liverpool Rd. E. to Fanshaw Place, Pickering	Construction	-	400	-	-	-	-	400	
53Replacement of watermain on Achilles Rd. from Salem Rd. to 100 m west of Salem Rd., AjaxConstruction80		Total	-	400	-	-	-	-	400	
SolutionRelevant of Salem Rd., AjaxConstructionReplacement of a watermain on Pickering Beach Rd. from Foord Rd. to Hewitt Cres., AjaxPre-Construction $360$ $   -$ </td <td>Deplessment of watermain on Ashillos Dd. from Solom</td> <td>Pre-Construction</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	Deplessment of watermain on Ashillos Dd. from Solom	Pre-Construction	-	-	-	-	-	-	-	
Total80 <td>53 Replacement of watermain on Achilles Rd. from Salem</td> <td>Construction</td> <td>80</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	53 Replacement of watermain on Achilles Rd. from Salem	Construction	80	-	-	-	-	-	-	
54       Replacement of a watermain on Pickering Beach Rd. from Foord Rd. to Hewitt Cres., Ajax       Construction       360       -	No. to foo in west of oalent No., Ajax	Total	80	-	-	-	-	-	-	
Total360130-130-130-130-130-130-130-130-130-130-130-130-130-130-130-1400 <th< td=""><td>Deplecement of a watermain on Diskaring Deach Dd</td><td>Pre-Construction</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></th<>	Deplecement of a watermain on Diskaring Deach Dd	Pre-Construction	-	-	-	-	-	-	-	
Total360130-130-130-130-130-130-130-130-130-130-130-130-130-130-130-1400 <th< td=""><td>from Foord Rd, to Hewitt Cres Aiax</td><td>Construction</td><td>360</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></th<>	from Foord Rd, to Hewitt Cres Aiax	Construction	360	-	-	-	-	-	-	
55Replacement of a watermain on Cedar St. from Tudor Ave. W. to Beatty Rd., AjaxConstruction400-40056Replacement of a watermain on Clements Rd. E. from Burcher Rd. E. to Dryer Dr., AjaxPre-Construction530-5530-5530-5530-5530-5530 <td></td> <td>Total</td> <td>360</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		Total	360	-	-	-	-	-	-	
SoAve. W. to Beatty Rd., AjaxConstruction400	Deplessment of a watermain on Coder Ct. from Tuder	Pre-Construction	-	-	-	-	130	-	130	
Total     -     -     -     530     -     550       Replacement of a watermain on Clements Rd. E. from Burcher Rd. E. to Dryer Dr., Ajax     Pre-Construction     -     1,450       Free-Construction     -     1,450     -     -     -     1,450     -     -     1,450		Construction	-	-	-	-	400	-	400	
Burcher Rd. E. to Dryer Dr., Ajax       Construction       -       1,450       -       -       -       1,4         Pre-Construction       -       1,450       -       -       -       1,4	Ave. W. to Deally Nu., Ajax	Total	-	-	-	-	530	-	530	
Burcher Rd. E. to Dryer Dr., Ajax Total Pre-Construction - - - - - - - - -	Danka and af a watermain an Olemente Dd. E. from	Pre-Construction	-	-	-	-	-	-	-	
Total         -         1,450         -         -         1,4           Pre-Construction         -         -         -         -         1,4	56 Replacement of a watermain on Clements Rd. E. from	Construction	-	1,450	-	-	-	-	1,450	
Pre-Construction	Buicher Ru. E. to Dryer Dr., Ajax	Total	-	1,450	-	-	-	-	1,450	
		Pre-Construction	-	-	-	-	-	-	-	
57       Replacement of a watermain on Thorncroft Cres. from         57       Billingsgate Cres. to Billingsgate Cres., Ajax		Construction	-	750	-	-	-	-	750	
Total - 750 7	Dimingsgate cres. to Dimingsgate cres., Ajax	Total	-	750	-	-	-	-	750	
Pre-Construction 250		Pre-Construction	250	-	-	-	-	-	-	
58       Replacement of watermain and valves on Harwood Ave.         58       from Clements Rd. to Falby Crt. Aiax	58 Replacement of watermain and valves on Harwood Ave.	Construction	-	-	750	-	-	-	750	
Total 250 - 750 7	from Clements Rd. to Falby Crt., Ajax —	Total	250	-	750	-	-	-	750	
Pre-Construction		Pre-Construction	-	-	-	-	-	-	-	
Separate Replacement of watermain on Water St. from the Whitby       Construction       -       750       -       -       7	Depleasement of watermain on Water St. from the Whithy	Construction	-	750	-	-	-	-	750	
Total - 750 7		Total	-	750	-	-	-	-	750	

Durham 🕄			Forecast						
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Devices and of watermain on Dundes St. (Liver No. 2)	Pre-Construction	-	-	-	-	-	-	-	
60 Replacement of watermain on Dundas St. (Hwy No. 2) from Lakeridge Rd. to McQuay Blvd., Whitby	Construction	-	400	-	-	-	-	400	
nom Eakenage Na. to Medday Diva., Whitby	Total	-	400	-	-	-	-	400	
Replacement of watermain on Consumers Dr. from 140	Pre-Construction	-	-	-	-	200	-	200	
61 m west of Thickson Rd. S to 110 m east of Sunray St., Whitby	Construction	-	-	-	-	-	590	590	
	Total	-	-	-	-	200	590	790	
Deplessment of watermein on Delmoraton Ave. from	Pre-Construction	-	-	-	200	-	-	200	
62 Replacement of watermain on Palmerston Ave. from Centre St. to Walton Blvd., Whitby	Construction	-	-	-	-	480	-	480	
	Total	-	-	-	200	480	-	680	
Depleasement of watermain on Contro St. N. from Willia	Pre-Construction	-	-	-	200	-	-	200	
63 Replacement of watermain on Centre St. N. from Willis Ave. to Rossland Rd. W., Whitby	Construction	-	-	-	-	950	-	950	
	Total	-	-	-	200	950	-	1,150	
Depleasement of a watermain on Orehard Ort, from St	Pre-Construction	-	-	-	-	-	100	100	
64 Replacement of a watermain on Orchard Crt. from St. Lawrence St. to Orchard Crt., Whitby	Construction	-	-	-	-	-	270	270	
Lawrence et. to orenard ort, whitey	Total	-	-	-	-	-	370	370	
Depleasement of watermain on Athel St. from St.	Pre-Construction	-	140	-	-	-	-	140	
65 Replacement of watermain on Athol St. from St. Lawrence St. to Clemence St., Whitby	Construction	-	-	-	300	-	-	300	
	Total	-	140	-	300	-	-	440	
Deplessment of watermein on St. Lowrence St. from	Pre-Construction	-	100	-	-	-	-	100	
66 Replacement of watermain on St. Lawrence St. from Brock St. to Athol St., Whitby	Construction	-	-	-	130	-	-	130	
Brock of to Athon of, Whitey	Total	-	100	-	130	-	-	230	
Depleasement of watermain on Duran St. North from	Pre-Construction	-	-	-	-	-	100	100	
67 Replacement of watermain on Byron St. North from Willis Ave. to Starr Ave., Whitby	Construction		-	-	-	-	260	260	
	Total	-	-	-	-	-	360	360	
Freedom protoction (motol Decel Double and costs and size	Pre-Construction	500	-	-	-	-	-	-	
Erosion protection Crystal Beach Boulevard watermain, Whitby —	Construction	-	5,000	-	-	-	-	5,000	
······oy	Total	500	5,000	-	-	-	-	5,000	

Durham 🕄		Forecast						
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Depleasement of watermain on Lligh St. from Mary St. to	Pre-Construction	-	-	-	-	-	-	-
69 Replacement of watermain on High St. from Mary St. to Walnut St., Whitby	Construction	260	-	-	-	-	-	-
	Total	260	-	-	-	-	-	-
Replacement of watermain on Cochrane St. from	Pre-Construction	-	300	-	-	-	-	300
<sup>70</sup> Ferguson St. to 125 m north of Beech St. W., Whitby	Construction	-	-	-	-	1,130	-	1,130
	Total	-	300	-	-	1,130	-	1,430
Replacement of watermain on Belton Court from Michael	Pre-Construction	-	-	-	-	-	-	-
71 Blvd to S/L, Whitby	Construction	1,000	-	-	-	-	-	-
Diva to o/2, Williby	Total	1,000	-	-	-	-	-	-
Poplessment of watermain on Harbour St. from Watern	Pre-Construction	-	-	-	-	-	100	100
Replacement of watermain on Harbour St. from Watson Rd. to dead-end, Whitby	Construction	-	-	-	-	-	1,000	1,000
	Total	-	-	-	-	-	1,100	1,100
Deplecement of watermain on Mary St. from Deceland	Pre-Construction	140	-	-	-	-	-	-
<ul> <li>Replacement of watermain on Mary St. from Rossland</li> <li>Rd. to Robert St., Oshawa</li> </ul>	Construction	2,195	-	-	-	-	-	-
	Total	2,335	-	-	-	-	-	-
Deplessment of watermain on Simona St. from Mataelf	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replacement of watermain on Simcoe St. from Metcalf</li> <li>St. to Quebec St., Oshawa</li> </ul>	Construction	1,300	-	-	-	-	-	-
St. to Quebec St., Oshawa	Total	1,300	-	-	-	-	-	-
Replacement of feedermain on Simcoe St. from Albert	Pre-Construction	-	500	-	-	-	-	500
75 St. to Bloor St. and Bloor St. from Simcoe St. to Albert	Construction	-	-	-	4,900	-	-	4,900
St., Oshawa	Total	-	500	-	4,900	-	-	5,400
Depletement of a feedermein on D.D. 22 (Discu Ct.)	Pre-Construction	-	-	-	-	-	60	60
76 Replacement of a feedermain on R.R. 22 (Bloor St.) from Cubert St. to Oxford St., Oshawa	Construction	-	-	-	-	-	240	240
Nom Gubert Gt. to Oxford Gt., Oshawa	Total	-	-	-	-	-	300	300
	Pre-Construction	-	-	-	-	-	-	-
77 Replacement of a feedermain on R.R. 22 (Bloor St.) from Wilson Rd. to Holland St., Oshawa	Construction	-	100	-	-	-	-	100
Non Wilson Nu. to Holland St., Oshawa	Total	-	100	-	-	-	-	100

# Appendix B: 2023-2032 Water Supply System 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.

Durham 🕄			Forecast						
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Devices and of a watermain on Simons St. South and	Pre-Construction	-	-	-	-	-	-	-	
78 Replacement of a watermain on Simcoe St. South and easement from Erie St. to Albert St., Oshawa	Construction	135	-	-	-	-	-	-	
casement from Ene of to Abert of, Oshawa	Total	135	-	-	-	-	-	-	
Perfectment of a watermain on Oliva Ave from Simood	Pre-Construction	-	-	-	-	-	-	-	
<ul> <li>Replacement of a watermain on Olive Ave from Simcoe</li> <li>St. to Drew St., Oshawa</li> </ul>	Construction	385	-	-	-	-	-	-	
· · · · · · · · · · · · · · · · · · ·	Total	385	-	-	-	-	-	-	
Replacement of watermain on R.R. 52 (Thornton Rd.)	Pre-Construction	-	-	-	200	-	-	200	
80 from South of Bloor St. under the Canadian National	Construction	-	-	-	-	200	2,300	2,500	
Railway, Oshawa	Total	-	-	-	200	200	2,300	2,700	
Deplegement of watermain on Linkway No. 2 (King Ct	Pre-Construction	-	-	-	83	-	-	83	
81 Replacement of watermain on Highway No. 2 (King St. W.) from Garrard Rd. to Thornton Rd., Oshawa	Construction	-	-	-	100	-	-	100	
W. J HOIL GALLAR NU. 10 THOLLOT NU., OSHAWA	Total	-	-	-	183	-	-	183	
Deplegement of watermain on Linkway No. 2 (King Ct	Pre-Construction	100	-	-	-	-	-	-	
<ul> <li>Replacement of watermain on Highway No. 2 (King St.</li> <li>W.) from Midtown Dr. to Queen St., Oshawa</li> </ul>	Construction	-	400	-	-	-	-	400	
W./ Hom Midlown Dr. to Queen St., Oshawa	Total	100	400	-	-	-	-	400	
Replacement of watermain on Highway No. 2 (King St.	Pre-Construction	-	-	-	232	-	-	232	
83 E.) from Wilson Rd. to 30 m east of Harmony Creek,	Construction	-	-	-	-	765	-	765	
Oshawa	Total	-	-	-	232	765	-	997	
Deplegement of watermain on Linkway No. 2 (King Ct	Pre-Construction	-	-	-	500	-	-	500	
<ul> <li>Replacement of watermain on Highway No. 2 (King St.</li> <li>E.) from Harmony Rd. to Kingsway College, Oshawa</li> </ul>	Construction	-	-	-	-	-	1,900	1,900	
L./ Iom Hamony Rd. to Ringsway College, Oshawa	Total	-	-	-	500	-	1,900	2,400	
Replacement of feedermain on Ritson Rd. from Oshawa	Pre-Construction	-	-	-	-	-	-	-	
85 Water Supply Plant Valve Chamber to Kawartha Ave.,	Construction	-	7,600	-	-	-	-	7,600	
Oshawa	Total	-	7,600	-	-	-	-	7,600	
	Pre-Construction	-	-	-	-	-	-	-	
Replacement of a watermain on Ritson Rd. S. from Kawartha Ave. to Simcoe St. S., Oshawa —	Construction	-	-	-	2,800	-	-	2,800	
	Total	-	-	-	2,800	-	-	2,800	

Durham	<b>က</b>			Forecas	Forecast				
Budget	202	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	an Thornton Dd fran	Pre-Construction	-	-	-	160	-	-	160
87 Replacement of a watermain Adelaide Ave. to Tatra Dr., Os		Construction	-	-	-	-	-	550	550
	Shawa	Total	-	-	-	160	-	550	710
Poplessment of a watermain	on Adolaido Avo, from	Pre-Construction	-	-	-	-	-	100	100
	Replacement of a watermain on Adelaide Ave. from Kaiser Cres. to Simcoe St., Oshawa	Construction	-	-	-	-	-	220	220
	onawa	Total	-	-	-	-	-	320	320
Replacement of a watermain	on Pitcon Pd from Annis	Pre-Construction	-	-	-	-	-	-	-
89 St. to Conant St., Oshawa	ON RIISON RU. ITOM ANNIS	Construction	290	-	-	-	-	-	-
		Total	290	-	-	-	-	-	-
Poplacement of a watermain	on Douglas St. from	Pre-Construction	-	-	-	-	-	-	-
90 Replacement of a watermain Conant St. to Wolfe St., Osha	awa	Construction	340	-	-	-	-	-	-
		Total	340	-	-	-	-	-	-
Replacement of watermain or	- Conont St. from Muoro	Pre-Construction	100	-	-	-	-	-	-
91 Rd. to Nelson St., Oshawa	r Conant St. Ironi Myers	Construction	-	-	390	-	-	-	390
		Total	100	-	390	-	-	-	390
Replacement of a watermain	on Oxford St. from Malaga	Pre-Construction	-	-	340	-	-	-	340
92 Rd. to Porter St. and Porter S	t. from Oxford St. to Glen	Construction	-	-	-	-	1,150	-	1,150
St., Oshawa		Total	-	-	340	-	1,150	-	1,490
Replacement of watermain or	Nalanaia Rd. from Ovford	Pre-Construction	-	-	100	-	300	-	400
93 St. to dead-end, Oshawa	i valencia Ru. Irom Oxforu	Construction	-	-	-	-	-	-	-
		Total	-	-	100	-	300	-	400
Deplessment of a watermain	on Analou Ort from	Pre-Construction	-	-	-	-	-	100	100
	Replacement of a watermain on Ansley Crt. from	Construction	-	-	-	-	-	280	280
	Rossland Rd. to dead-end, Oshawa –	Total	-	-	-	-	-	380	380
Poploament of a waterrain	on Wilson Dd. from	Pre-Construction	-	-	-	-	-	100	100
95 Replacement of a watermain Raleigh Ave. to Wentworth St		Construction	-	-	-	-	-	425	425
	., conawa	Total	-	-	-	-	-	525	525

Durham 🕄			Forecast					
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Replacement of watermain on East Shore Dr./Port	Pre-Construction	-	-	-	-	-	-	-
96 Darlington Rd. from Lake Rd. to Bowmanville Water	Construction	-	-	1,150	-	-	-	1,150
Supply Plant, Bowmanville	Total	-	-	1,150	-	-	-	1,150
Replacement of watermain on Baseline Rd. East from	Pre-Construction	-	-	150	-	-	-	150
97 Liberty St. to Mearns Ave., Bowmanville	Construction	-	-	1,300	1,300	-	-	2,600
Liberty of to means Ave., bownanville	Total	-	-	1,450	1,300	-	-	2,750
	Pre-Construction	-	-	-	-	-	_	-
98 Replacement of watermain on North St. from Wilmot St. to Concession Rd. 3, Newcastle	Construction	-	1,750	-	-	-	-	1,750
	Total	-	1,750	-	-	-	-	1,750
	Pre-Construction	-	-	-	-	100	-	100
<ul> <li>Replacement of watermain on Amos St. from Toronto St.</li> <li>to Highway 401, Newcastle</li> </ul>	Construction	-	-	-	-	210	-	210
IO FIGHWAY 401, NEWCASLIE	Total	-	-	-	-	310	-	310
	Pre-Construction	-	-	-	-	-	-	-
100 Replacement of watermain on First Ave. from Brock St. to Dominion St., Uxbridge	Construction	-	280	-	-	-	-	280
to Dominion St., Oxbridge	Total	-	280	-	-	-	-	280
	Pre-Construction	-	-	-	-	-	-	-
101 Cemetery Rd. from Toronto St to 600 m northerly - required to loop the watermain and system security	Construction	-	180	-	-	-	-	180
required to loop the watermain and system security	Total	-	180	-	-	-	-	180
	Pre-Construction	-	-	-	-	-	-	-
102 Replacement of watermain on Caleb St. from Clarke St.	Construction	-	350	-	-	-	-	350
to Queen St., Port Perry	Total	-	350	-	-	-	-	350
Replacement of watermain on Bigelow St. from 140 m	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replacement of watermain on Bigelow St. from 140 m north of Kellett St. to Kellett St., Kellett St. from Bigelow</li> <li>103 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</li> </ul>	Construction	440	-	-	-	-	-	-
	Total	440	-	-	-	-	-	-

Durham 🕄					Foreca	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Device and of watermain on Deep St. from Device St.	Pre-Construction	-	-	-	-	-	-	-
104 Replacement of watermain on Rosa St. from Paxton St. to dead-end, Port Perry	Construction	-	-	1,250	-	-	-	1,250
to dead-end, i officienty	Total	-	-	1,250	-	-	-	1,250
Depletement of watermain on Ottowa St. from Owen	Pre-Construction	-	-	-	150	-	-	150
<ul> <li>Replacement of watermain on Ottawa St. from Queen</li> <li>St. to MacDonald St., Port Perry</li> </ul>	Construction	-	-	-	730	-	-	730
St. to MacDonald St., Port Perry	Total	-	-	-	880	-	-	880
	Pre-Construction	-	-	-	-	-	-	-
106 Replacement of watermain on Bay St. from Old Simcoe St. to Bigelow St., Port Perry	Construction	-	-	960	-	-	-	960
St. to bigelow St., Port Perry	Total	-	-	960	-	-	-	960
	Pre-Construction	-	-	100	-	-	-	100
07 Replacement of watermain on Kent St. from 85 m north of Beech St. to Lakeshore Rd., Port Perry	Construction	-	-	-	-	600	-	600
of Deech St. to Lakeshole Rd., For Ferry	Total	-	-	100	-	600	-	700
	Pre-Construction	-	-	-	-	-	75	75
108 Replacement of watermain on Perry St. from North St. to Paxton St., Port Perry	Construction	-	-	-	-	-	180	180
Faxion St., Fort Ferry	Total	-	-	-	-	-	255	255
	Pre-Construction	-	-	-	-	-	-	-
109 Replacement of watermain on Jane St. from Ida St. to 220 m north of Ida St., Sunderland	Construction	775	-	-	-	-	-	-
	Total	775	-	-	-	-	-	-
	Pre-Construction	-	-	-	-	-	-	-
110 Replacement of watermain on Maple St. from River St. to dead-end, Sunderland	Construction	146	-	-	-	-	-	-
to dead-end, Sundenand	Total	146	-	-	-	-	-	-
Replacement of watermain on Cameron St. from 215 m	Pre-Construction	-	-	-	-	-	-	-
Replacement of watermain on Cameron St. from 215 m 111 east of McRae St. to 750 m west of R.R. 2 Simcoe St.,	Construction	-	1,650	-	-	-	-	1,650
Cannington	Total	-	1,650	-	-	-	-	1,650
	Pre-Construction	-	-	-	-	-	100	100
112 Replacement of watermain on Laidlaw St. from Cameron	Construction	-	-	-	-	-	450	450
St. to Park St., Cannington —	Total	-	-	-	-	-	550	550

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

Durham 🕄				Forecast					
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
	Pre-Construction	-	-	-	-	-	-	-	
<sup>122</sup> Zone 2 feedermain on Taunton Rd. from Westney Rd. to	Construction	-	3,000	-	-	-	-	3,000	
200 m west of Harwood Ave., Ajax	Total	-	3,000	-	-	-	-	3,000	
Zone 2 feedermain on William Jackson Dr. & Taunton	Pre-Construction	-	-	-	-	-	-	-	
123 Rd. from Earl Grey Ave. to Ravenscroft Rd., Pickering/	Construction	7,900	-	-	-	-	-	-	
Ajax	Total	7,900	-	-	-	-	-	-	
Zana 2 faadamaain on Church St. from acuth aida of the	Pre-Construction	800	-	-	-	-	-	-	
124 Zone 2 feedermain on Church St. from south side of the hydro right of way to Taunton Rd., Ajax	Construction	3,400	-	-	-	-	-	-	
Hydro Hynr of way to Faultion Ru., Ajax	Total	4,200	-	-	-	-	-	-	
Watermain on Hunt St. from Westney Dd. to Harverd	Pre-Construction	-	-	-	-	-	-	-	
125 Watermain on Hunt St. from Westney Rd. to Harwood Ave., Ajax	Construction	-	-	1,600	-	-	-	1,600	
Ave., Ajan	Total	-	-	1,600	-	-	-	1,600	
Zana 4 faadamaain faana Wikisha Wiatan Cumula Diantsia	Pre-Construction	-	-	-	-	-	-	-	
126 Zone 1 feedermain from Whitby Water Supply Plant to Thornton Rd., Whitby/Oshawa	Construction	-	9,000	7,000	7,000	-	-	23,000	
momon rd., whiley/Oshawa	Total	-	9,000	7,000	7,000	-	-	23,000	
Zana 4 faadamaain ay Maguian Del forms Anderson Ot to	Pre-Construction	-	-	-	-	-	-	-	
<sup>127</sup> Zone 1 feedermain on Manning Rd. from Anderson St. to Hydro corridor., Whitby	Construction	-	1,840	-	-	-	-	1,840	
Tryaro comaor., whitey	Total	-	1,840	-	-	-	-	1,840	
	Pre-Construction	-	-	-	-	600	650	1,250	
<sup>128</sup> Zone 1 West Whitby feedermain on Brock St./Victoria St. to Rossland Rd., Whitby	Construction	-	-	-	-	-	-	-	
	Total	-	-	-	-	600	650	1,250	
Zana 2 facedownania an Coward Dd fram no the of the Mid	Pre-Construction	-	-	-	-	-	-	-	
Zone 3 feedermain on Garrard Rd. from north of the Mid-	Construction	-	6,400	-	-	-	-	6,400	
Block Arterial to Winchester Rd., Whitby (East Loop) —	Total	-	6,400	-	-	-	-	6,400	
Zana Ofradamasin an Winshastan Dd fran Oostat Db t	Pre-Construction	-	-	-	-	-	-	-	
<sup>130</sup> Zone 3 feedermain on Winchester Rd. from Cachet Blvd.	Construction	-	1,100	-	-	-	-	1,100	
to Garrard Rd., Whitby (East Loop)	Total	-	1,100	-	-	-	-	1,100	

# Appendix B: 2023-2032 Water Supply System 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.

Durham 😤			Forecast						
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Zone 3 feedermain on Conlin Rd. from Anderson St. to	Pre-Construction	-	-	-	-	-	-	-	
131 Thickson Rd., Whitby (Region's share only)	Construction	1,000	-	-	-	-	-	-	
	Total	1,000	-	-	-	-	-	-	
Zone 3 feedermain on Mid-Block Arterial from Lynde	Pre-Construction	-	-	-	-	-	-	-	
132 Creek to Ashburn Rd., Whitby (West Loop) (Region's	Construction	5,600	-	-	-	-	-	-	
share only)	Total	5,600	-	-	-	-	-	-	
Zone 3 feedermain on Ashburn Rd. from Amanda Ave.	Pre-Construction	-	-	-	-	-	-	-	
133 to Columbus Rd., Whitby (West Loop) (Region's share	Construction	-	5,950	-	-	-	-	5,950	
only)	Total	-	5,950	-	-	-	-	5,950	
Zone 3 feedermain on Columbus Rd. from Ashburn Rd.	Pre-Construction	-	-	-	-	-	-	-	
134 to 360 m east of Ashburn Rd., Whitby (West Loop)	Construction	-	1,260	-	-	-	-	1,260	
(Region's share only)	Total	-	1,260	-	-	-	-	1,260	
Zone 3 feedermain on Columbus Rd. from Ashburn Rd.	Pre-Construction	-	-	-	-	-	-	-	
135 to Country Lane, Whitby (West Loop) (Region's Share	Construction	-	-	-	-	5,850	-	5,850	
only)	Total	-	-	-	-	5,850	-	5,850	
Zone 4 feedoweein from Thickeen Dd. Zone 4 water	Pre-Construction	-	-	-	-	-	-	-	
136 Zone 4 feedermain from Thickson Rd. Zone 4 water pumping station to Zone 4 Reservoir, Whitby	Construction	-	-	-	-	-	28,600	28,600	
pumping station to zone 4 Neservoli, whitby	Total	-	-	-	-	-	28,600	28,600	
Zere Africalements on Drawley Dd from Ashbum Dd fo	Pre-Construction	-	-	-	-	-	-	-	
137 Zone 4 feedermain on Brawley Rd. from Ashburn Rd. to Duffs Rd., Whitby	Construction	-	6,475	-	-	-	-	6,475	
Duns Ru., Whitby	Total	-	6,475	-	-	-	-	6,475	
Zerre Africalemania en Achtern Del form Desular Del te	Pre-Construction	-	700	-	-	-	-	700	
138 Zone 4 feedermain on Ashburn Rd. from Brawley Rd. to	Construction	-	-	-	-	-	8,100	8,100	
Mid-block., Whitby –	Total	-	700	-	-	-	8,100	8,800	
<sup>1</sup> 39 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	

Durham 🕄				Forecast				
Budget S	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Materia an Driterraia Area franz Thermater Del te	Pre-Construction	750	-	-	-	-	-	-
140 Watermain on Britannia Ave. from Thornton Rd. to Windfields Farm Dr., Oshawa	Construction	-	-	1,250	-	-	-	1,250
Windheids Farm Dr., Oshawa	Total	750	-	1,250	-	-	-	1,250
Materia and a second frame Minutfields. Forme Dr. to	Pre-Construction	-	-	150	-	-	-	150
141 Watermain on local road from Windfields Farm Dr. to Winchester Rd., Oshawa	Construction	-	-	-	1,100	-	-	1,100
	Total	-	-	150	1,100	-	-	1,250
	Pre-Construction	-	300	-	-	-	-	300
42 Watermain on Stevenson Rd. from Taunton Rd. to Conlin Rd., Oshawa	Construction	-	-	2,200	-	-	-	2,200
	Total	-	300	2,200	-	-	-	2,500
Watermain on Thornton Rd. from 100 m North of Conlin Rd. within the Northwood Employment Area, Oshawa	Pre-Construction	-	-	-	-	-	-	-
	Construction	150	-	-	-	-	-	-
	Total	150	-	-	-	-	-	-
Watermain modifications in conjunction with the twinning	Pre-Construction	-	40	_	_	-	-	40
of northwest branch of Harmony Creek sub-trunk	Construction	-	135	-	-	-	-	135
sanitary sewer from 200 m south of Beatrice St. to Ritson Rd., Oshawa	Total	-	175	-	-	-	-	175
	Pre-Construction	-	-	-	-	-	-	-
<sup>145</sup> Zone 3 feedermain on Conlin Rd. from Garrard Rd. to Ritson Rd.,Oshawa	Construction	-	7,525	-	9,500	-	-	17,025
RIISOIT RU., OSHAWA	Total	-	7,525	-	9,500	-	-	17,025
	Pre-Construction	-	-	-	-	-	-	-
Zone 3 feedermain on Conlin Rd. from Ritson Rd. to	Construction	-	-	4,000	-	-	-	4,000
<sup>40</sup> Wilson Rd., Oshawa	Total	-	-	4,000	-	-	-	4,000
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 😋					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	600	-	-	-	-	600
Zone 4 feedermain on Ritson Rd. from Columbus Rd. to	Construction	-	-	-	-	-	7,200	7,200
Winchester Rd., Oshawa	Total	-	600	-	-	-	7,200	7,800
	Pre-Construction	-	600	-	-	-	-	600
Zone 4 feedermain on Winchester Rd. from Ritson Rd. to Harmony Rd., Oshawa	Construction	-	-	-	-	-	6,750	6,750
	Total	-	600	-	-	-	6,750	7,350
Zone 1 feedermain on Baseline Rd. from Prestonvale	Pre-Construction	-	-	-	-	-	-	-
150 Rd. to Trulls Rd., Courtice	Construction	-	-	3,650	-	-	-	3,650
Ra. to Thuis Ra., Coultice	Total	-	-	3,650	-	-	-	3,650
Zone 1 feedermein en Dreetenvele Del from Deceline	Pre-Construction	-	-	-	-	-	-	-
<sup>151</sup> Zone 1 feedermain on Prestonvale Rd. from Baseline Rd. to 950 m north of Baseline Rd., Courtice	Construction	-	-	1,850	-	-	-	1,850
Na. to 350 minorul of Baseline Na., Countie	Total	-	-	1,850	-	-	-	1,850
Zana 4 faadamaalin ay aaaan ant firana Taumilina Del ta	Pre-Construction	-	-	-	-	-	-	-
152 Zone 1 feedermain on easement from Townline Rd. to Prestonvale Rd., Courtice	Construction	-	-	3,000	-	-	-	3,000
	Total	-	-	3,000	-	-	-	3,000
Zana 2 faadamaain on Diaar Ct. from Toursing Dd. to	Pre-Construction	-	-	-	-	-	-	-
<sup>153</sup> Zone 2 feedermain on Bloor St. from Townline Rd. to Trulls Rd., Courtice	Construction	-	-	-	-	-	350	350
	Total	-	-	-	-	-	350	350
Zana 4 faadamaain on Lomba Dd from Lluu Na 2 (King	Pre-Construction	-	-	-	-	-	-	-
<sup>154</sup> Zone 1 feedermain on Lambs Rd. from Hwy No. 2 (King St.) to Zone 1 Liberty Street Reservoir, Bowmanville	Construction	17,900	27,000	-	-	-	-	27,000
St. / to Zone T Liberty Street Reservoir, Downanvine	Total	17,900	27,000	-	-	-	-	27,000
Zono 1. foodormain en Boselino Del from Deverserville	Pre-Construction	-	-	-	-	-	-	-
155 Zone 1 feedermain on Baseline Rd. from Bowmanville	Construction	-	2,400	2,400	-	3,000	-	7,800
Ave. to Liberty St., Bowmanville –	Total	-	2,400	2,400	-	3,000	-	7,800
Zono 1 foodormoin from Downsonville Mater Ownshi	Pre-Construction	-	500	-	500	-	-	1,000
156Zone 1 feedermain from Bowmanville Water Supply Plant to Baseline Rd., Bowmanville	Construction	-	-	-	-	-	10,600	10,600
	Total	-	500	-	500	-	10,600	11,600

					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	520	-	540	1,060
157 Zone 1 feedermain on Baseline Rd. from Liberty St. to Mearns Ave., Bowmanville	Construction	-	-	-	-	-	2,500	2,500
	Total	-	-	-	520	-	3,040	3,560
Zana O faadamaain an Likarty St. fram Canadaain Dd. 2	Pre-Construction	1,200	-	-	-	-	-	-
<sup>158</sup> Zone 2 feedermain on Liberty St. from Concession Rd. 3 and Concession Rd. 4 to Zone 2 Reservoir, Bowmanville	Construction	-	-	-	8,300	-	-	8,300
	Total	1,200	-	-	8,300	-	-	8,300
	Pre-Construction	-	-	-	-	-	-	-
Zone 1 feedermain from Arthur Street reservoir to future Zone 1 water storage facility, Newcastle	Construction	-	3,200	-	-	-	-	3,200
	Total	-	3,200	-	-	-	-	3,200
	Pre-Construction	120	-	-	-	-	-	-
160 Zone 1 feedermain on Highway No. 2 (King Ave.) from Rudell Rd. to 200 m west of North St., Newcastle	Construction	-	2,120	-	-	-	-	2,120
Rudell Ru. to 200 III west of North St., Newcastle	Total	120	2,120	-	-	-	-	2,120
Zone 2 feedermain on Arthur St. from the Zone 2	Pre-Construction	-	-	-	-	-	-	-
161 pumping station to existing Andrew St. pumping station,	Construction	-	4,800	-	-	-	-	4,800
Newcastle	Total	-	4,800	-	-	-	-	4,800
Westernessing and One day Dr. for my Wileits beyond. One of the Newth	Pre-Construction	-	-	-	-	-	-	-
162 Watermain on Grady Dr. from Whitehand Cres. to North St., Newcastle	Construction	-	850	-	-	-	-	850
	Total	-	850	-	-	-	-	850
Watermain on Concession Rd. 5 to service the westerly	Pre-Construction	-	-	-	_	-	-	_
163 portion of the Beaverton Avenue Employment Area A,	Construction	-	2,450	-	-	-	-	2,450
Brock	Total	-	2,450	-	-	-	-	2,450
	Pre-Construction	-	-	-	-	-	-	-
164 Water Meter installation and replacement	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 🕄					Foreca	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Replacement of lead service connection in various	Pre-Construction	-	-	-	-	-	-	-
166 locations	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
	Pre-Construction	-	-	-	-	-	-	-
167 Replacement of valves	Construction	400	450	450	500	600	4,400	6,400
	Total	400	450	450	500	600	4,400	6,400
	Pre-Construction	-	-	-	-	-	-	-
168 Valve Chamber Condition Assessment and inspections	Construction	450	450	450	450	-	-	1,350
	Total	450	450	450	450	-	-	1,350
	Pre-Construction	-	-	-	-	-	-	-
169 Replacement of hydrants	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								
	Pre-Construction	-	12,500	-	-	-	-	12,500
170 Expansion of the Ajax Water Supply Plant from 163.6 MLD to 327 MLD, Ajax	Construction	-	-	-	-	138,500	-	138,500
	Total	-	12,500	-	-	138,500	-	151,000
	Pre-Construction	-	1,200	-	-	-	-	1,200
Proposed Ajax Zone 1 Water Storage facility - 11 ML,	Construction	-	-	-	12,700	-	-	12,700
Ajax	Total	-	1,200	-	12,700	-	-	13,900
	Pre-Construction	-	-	-	-	-	-	-
172 Expansion of the Whitby Water Supply Plant from 109 MLD to 218 MLD, Whitby	Construction	13,500	15,500	-	218,800	-	-	234,300
	Total	13,500	15,500	-	218,800	-	-	234,300
<ul> <li>Whitby Water Supply Plant - Plant 1 Upgrades and Rehabilitation Works proposed works to include but not</li> <li>173 limited to building envelope improvements, filter treatment process upgrades, rehabilitation works for electrical, mechanical and process systems</li> </ul>	Pre-Construction	-	-	-	-	2,500	-	2,500
	Construction	-	-	-	-	-	17,300	17,300
	Total	-	-	-	-	2,500	17,300	19,800

Durham 🕄					Forec	ast		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Commend Del Zono 4 Decommente Europeiro fermo 24 Mil 4-	Pre-Construction	-	-	2,000	-	-	-	2,000
174 Garrard Rd. Zone 1 Reservoir Expansion from 31 ML to 50 ML and Zone 2 pumping station expansion, Whitby	Construction	-	-	-	-	-	17,200	17,200
	Total	-	-	2,000	-	-	17,200	19,200
Garrard Rd. Zone 3 Water Pumping Station - upgrades,	Pre-Construction	-	-	-	-	-	-	-
175 Whitby	Construction	1,740	-	-	-	-	-	-
with by	Total	1,740	-	-	-	-	-	-
Thickson Dd. Zong 2 Water Dumping Station Expansion	Pre-Construction	-	-	-	-	-	-	-
Thickson Rd. Zone 3 Water Pumping Station Expansion to 22.7 MLD, Whitby	Construction	-	11,800	-	-	-	-	11,800
	Total	-	11,800	-	-	-	-	11,800
Dranged Zong 4 Dumping Station at the Thickeen Dd	Pre-Construction	-	-	-	-	-	-	-
177 Proposed Zone 4 Pumping Station at the Thickson Rd. Reservoir, Whitby	Construction	-	-	1,000	-	-	-	1,000
	Total	-	-	1,000	-	-	-	1,000
Dranged Whithy Zong 4 Storage Eacility 12 MI	Pre-Construction	-	-	-	-	-	-	-
178 Proposed Whitby Zone 4 Storage Facility - 13 ML, Whitby	Construction	-	-	35,600	-	-	-	35,600
with by	Total	-	-	35,600	-	-	-	35,600
Drange d Whithy Zong 4.8 5 Dymping Station at Duffe	Pre-Construction	2,300	-	-	-	-	-	-
179 Proposed Whitby Zone 4 & 5 Pumping Station at Duffs Rd. Reservoir and feedermain, Whitby	Construction	-	-	-	-	12,000	-	12,000
	Total	2,300	-	-	-	12,000	-	12,000
	Pre-Construction	-	-	-	-	-	-	-
180 Oshawa Water Supply Plant - break wall modifications	Construction	-	1,120	-	-	-	-	1,120
	Total	-	1,120	-	-	-	-	1,120
Tourton Dd. Zono 9. Doponyoir Expansion from 42 ML to	Pre-Construction	-	-	2,000	-	-	-	2,000
181 Taunton Rd. Zone 2 Reservoir Expansion from 13 ML to 27 ML, Oshawa –	Construction	-	-	-	-	17,000	-	17,000
	Total	-	-	2,000	-	17,000	-	19,000
	Pre-Construction	-	-	2,000	-	-	-	2,000
182 Grandview Zone 2 Pumping Station Expansion, Oshawa	Construction	-	-	-	-	8,000	-	8,000
	Total	-	-	2,000	-	8,000	-	10,000

# Appendix B: 2023-2032 Water Supply System 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.

Durham 🕄					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Toursten Del Zono 2 Wester Duranian Otation Function	Pre-Construction	-	1,000	-	4,000	-	-	5,000
183 Taunton Rd. Zone 3 Water Pumping Station Expansion from 27 ML to 75 ML, Oshawa	Construction	-	-	-	-	-	20,000	20,000
	Total	-	1,000	-	4,000	-	20,000	25,000
	Pre-Construction	-	600	-	1,500	-	-	2,100
184 Harmony Rd. Zone 3 Reservoir Expansion, Oshawa	Construction	-	-	-	-	-	6,000	6,000
	Total	-	600	-	1,500	-	6,000	8,100
Duran and Zone 4 Duraning Station at the Upperson Dd	Pre-Construction	-	-	-	-	-	-	-
85 Proposed Zone 4 Pumping Station at the Harmony Rd. Reservoir, Oshawa	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
	Pre-Construction	1,000	-	-	-	-	-	-
187 Proposed Zone 5 Pumping Station at Harmony Rd. Reservoir and feedermain, Oshawa	Construction	-	-	10,200	-	-	-	10,200
Reservoir and recuentianit, Osnawa	Total	1,000	-	10,200	-	-	-	10,200
Hesten Weten Duraning Otsting an unreign station	Pre-Construction	-	-	-	-	-	-	-
188 Hortop Water Pumping Station - pumping station replacement, Oshawa	Construction	-	-	10,600	-	-	-	10,600
replacement, Oshawa	Total	-	-	10,600	-	-	-	10,600
	Pre-Construction	-	-	4,000	-	-	-	4,000
189 Bowmanville Water Supply Plant Expansion from 36 MLD to 55 MLD	Construction	-	-	-	-	-	55,000	55,000
MED to 55 MED	Total	-	-	4,000	-	-	55,000	59,000
	Pre-Construction	-	-	-	-	-	-	-
190 Proposed Liberty Street Zone 1 Reservoir 11 ML and demolition of the existing elevated tank	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 🕄					Foreca	st				
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
	Pre-Construction	-	600	-	1,325	-	-	1,925		
192 Bowmanville Zone 2 reservoir expansion	Construction	-	-	-	-	-	7,700	7,700		
	Total	-	600	-	1,325	-	7,700	9,625		
	Pre-Construction	1,000	-	-	-	-	-	-		
193 Newcastle Water Supply Plant - demolition of plant No.1	Construction	-	3,400	-	-	-	-	3,400		
	Total	1,000	3,400	-	-	-	-	3,400		
	Pre-Construction	-	-	-	-	-	-	-		
194 Proposed Zone 1 Newcastle Reservoir 11 ML	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		
	Pre-Construction	-	-	-	500	-	1,600	2,100		
196 Proposed Zone 2 Newcastle Reservoir	Construction	-	-	-	-	-	6,350	6,350		
	Total	-	-	-	500	-	7,950	8,450		
	Pre-Construction	-	-	-	-	-	1,500	1,500		
197 Proposed Zone 1 Orono Storage Facility 1 ML	Construction	-	-	-	-	-	-	-		
	Total	-	-	-	-	-	1,500	1,500		
	Pre-Construction	2,000	-	-	-	-	-	-		
198 Scugog Water Supply System - Alternative Water Supply	Construction	1,000	-	27,900	-	-	-	27,900		
Source	Total	3,000	-	27,900	-	-	-	27,900		
	Pre-Construction	-	-	-	-	-	-	-		
199 Port Perry Water Storage Facility - additional capacity	Construction	-	-	16,200	-	-	-	16,200		
2.8 ML and watermain	Total	-	-	16,200	-	-	-	16,200		
	Pre-Construction	-	-	-	-	-	-	-		
200 Blackstock Water Supply System - upgrades to Municipal Well No. 7	Construction	350	-	-	-	-	-	-		
	Total	350	-	-	-	-	-	-		

Durham 🕄					Forec	ast		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Greenbank Water Supply System - Replacement of	Pre-Construction	1,000	-	-	-	-	-	-
201 Municipal Well 1 and 6 with rehabilitation work at the	Construction	-	-	-	-	-	4,000	4,000
pumphouse	Total	1,000	-	-	-	-	4,000	4,000
202 Uxbridge Water Supply System - New Well and	<b>Pre-Construction</b>	500	-	-	-	-	-	-
Pumphouse	Construction	-	-	4,220	-	-	-	4,220
	Total	500	-	4,220	-	-	-	4,220
oz Uxbridge Water Supply System - Municipal Well No. 7	Pre-Construction	500	-	1,000	-	-	-	1,000
203 Oxbridge Water Supply System - Municipal Well No. 7 Replacement	Construction	-	-	-	-	-	5,000	5,000
	Total	500	-	1,000	-	-	5,000	6,000
Expansion of Quaker Hill Peserveir from 2.9 ML to 5.2	Pre-Construction	-	1,200	-	-	-	-	1,200
204 Expansion of Quaker Hill Reservoir from 2.8 ML to 5.2 ML, Uxbridge	Construction	-	-	-	-	6,800	-	6,800
	Total	-	1,200	-	-	6,800	-	8,000
Sunderland Water Supply System New Wall and	Pre-Construction	-	-	-	-	-	-	-
205 Sunderland Water Supply System - New Well and Pumphouse with standby power (DC602)	Construction	-	5,000	-	-	-	-	5,000
	Total	-	5,000	-	-	-	-	5,000
Sunderland Water Supply System New Wall and	Pre-Construction	-	-	-	-	-	7,000	7,000
206 Sunderland Water Supply System - New Well and Pumphouse with standby power (DC603)	Construction	-	-	-	-	-	-	-
r umphouse with standby power (Doodo)	Total	-	-	-	-	-	7,000	7,000
Sunderland Water Supply System - Elevated Water	Pre-Construction	-	-	-	-	-	1,000	1,000
207 Storage Tank (2.2 ML) and removal of the existing	Construction	-	-	-	-	-	8,000	8,000
standpipe	Total	-	-	-	-	-	9,000	9,000
Commingstern Water Summly System - New Wall and	Pre-Construction	-	-	-	-	1,000	1,500	2,500
208 Cannington Water Supply System - New Well and Pumphouse with standby power (DC601)	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 😳					Foreca	st		
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	1,000	-	2,400	3,400
210 Beaverton Water Supply Plant Expansion	Construction	-	-	-	-	-	30,000	30,000
	Total	-	-	-	1,000	-	32,400	33,400
Proverten additional Water Storage from 2 ML to	Pre-Construction	500	-	1,000	-	-	-	1,000
211 Beaverton - additional Water Storage from 2 ML to 4.8 ML	Construction	-	-	-	-	8,000	-	8,000
4.0 ME	Total	500	-	1,000	-	8,000	-	9,000
Motor Towar increations, condition according to a	Pre-Construction	-	100	-	-	100	300	500
212 Water Tower inspections, condition assessment and rehabilitation works	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
	Pre-Construction	-	-	-	-	-	-	-
214 Wellhead protection at Regional well sites	Construction	800	800	800	800	800	4,000	7,200
	Total	800	800	800	800	800	4,000	7,200
Mater Complex Dispta Assat Management Dama disting	Pre-Construction	-	-	-	-	-	8,000	8,000
215 Water Supply Plants - Asset Management Remediation and Rehabilitation works	Construction	-	-	-	-	-	32,500	32,500
	Total	-	-	-	-	-	40,500	40,500
	Pre-Construction	-	-	-	-	-	-	-
216 New Concrete Floor in Sign Shed - Ajax Depot	Construction	-	58	-	-	-	-	58
	Total	-	58	-	-	-	-	58
	Pre-Construction	142	-	-	-	-	-	-
217 Replace Fire Panel and Smoke Detector - Ajax WSP	Construction	-	285	-	-	-	-	285
	Total	142	285	-	-	-	-	285
	Pre-Construction	-	160	-	-	-	-	160
218 Roof Replacement - Ajax WSP	Construction	-	-	560	-	-	-	560
	Total	-	160	560	-	-	-	720

Durham 🕄					Foreca	ist		
Budget S	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Access Ledder Panair/Panlacement Project Mariaus	Pre-Construction	-	-	-	-	-	-	-
220 Access Ladder Repair/Replacement Project - Various Locations	Construction	15	-	-	-	-	-	-
	Total	15	-	-	-	-	-	-
	Pre-Construction	-	-	-	-	-	-	-
221 Construction of Mezzanine in Fleet Bay 1 - Orono Depot	Construction	-	67	-	-	-	-	67
	Total	-	67	-	-	-	-	67
Thermal Class Densis for Deliver Desire and Desire	Pre-Construction	-	-	-	-	-	-	-
222 Thermal Glass Panels for Rollup Doors and Door Operators - Orono Depot	Construction	-	66	-	-	-	-	66
	Total	-	66	-	-	-	-	66
	Pre-Construction	-	-	-	-	-	-	-
223 Replacement of Fire System - Oshawa/Whitby Depot	Construction	67	-	-	-	-	-	-
	Total	67	-	-	-	-	-	-
Densire and Energy Cost Float Day Constate Floars	Pre-Construction	-	-	-	-	-	-	-
Repairs and Epoxy Coat Fleet Bay Concrete Floors & Repairs to Floor Drains in Fleet Bays - Scugog Depot	Construction	-	69	-	-	-	-	69
	Total	-	69	-	-	-	-	69
Deplace Evicting Acabelt in Vericus Location - Sources	Pre-Construction	-	-	10	-	-	-	10
226 Replace Existing Asphalt in Various Location - Scugog Depot	Construction	-	-	-	123	-	-	123
	Total	-	-	10	123	-	-	133
227 Widening of Existing Canopy Entrance - Sunderland Depot —	Pre-Construction	8	-	-	-	-	-	-
	Construction	-	42	-	-	-	-	42
	Total	8	42	-	-	-	-	42

Durham 🕄					Forec	ast			
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
	Pre-Construction	-	-	-	-	-	-	-	
228 Paving of Rear Yard and Site Repairs - Orono Depot	Construction	-	-	-	-	-	122	122	
	Total	-	-	-	-	-	122	122	
Bast Danlagement on Vahiela Storage Baya, Orang	Pre-Construction	27	-	-	-	-	-	-	
229 Roof Replacement on Vehicle Storage Bays - Orono Depot	Construction	-	173	-	-	-	-	173	
Depot	Total	27	173	-	-	-	-	173	
	Pre-Construction	-	-	-	-	-	-	-	
230 Front Entrance Automatic Gate - Oshawa WSP	Construction	-	175	-	-	-	-	175	
	Total	-	175	-	-	-	-	175	
231 Metering Chamber Drainage - Oshawa WSP	Pre-Construction	-	-	-	-	-	-	-	
	Construction	595	-	-	-	-	-	-	
	Total	595	-	-	-	-	-	-	
De stifte stiene of Dusing and Daskland maan Mataning	Pre-Construction	-	-	-	-	-	-	-	
<ul> <li>Rectification of Drainage Problem near Metering</li> <li>Chamber - Oshawa WSP</li> </ul>	Construction	-	-	-	-	-	231	231	
Chamber - Oshawa WSP	Total	-	-	-	-	-	231	231	
	Pre-Construction	-	-	-	-	-	-	-	
233 Repairs to Building Envelope - Oshawa WSP	Construction	-	135	-	-	-	-	135	
	Total	-	135	-	-	-	-	135	
	Pre-Construction	-	-	-	-	-	-	-	
<ul> <li>Replace Floor Access Panels and Sleeves - Oshawa</li> <li>WSP</li> </ul>	Construction	-	150	-	-	-	-	150	
WOR	Total	-	150	-	-	-	-	150	
	Pre-Construction	-	-	-	-	-	-	-	
235 RTU's 1 2 3 4 Replacement - Oshawa WSP	Construction	-	1,094	-	-	-	-	1,094	
	Total	-	1,094	-	-	-	-	1,094	
	Pre-Construction	457	-	-	-	-	-	-	
236 RTU's 1 2 3 4 Replacement - Oshawa WSP	Construction	-	-	-	-	-	-	-	
	Total	457	-	-	-	-	-	-	

Durham 🕄					Forec	ast				
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
	Pre-Construction	-	49	-	-	-	-	49		
237 Water Damage on Window System - Oshawa WSP	Construction	-	-	107	-	-	-	107		
	Total	-	49	107	-	-	-	156		
	Pre-Construction	-	65	-	-	-	-	65		
238 Front Foyer Concrete Wall/Floor Repair - Bowmanville WSP	Construction	-	-	-	-	-	-	-		
Wor	Total	-	65	-	-	-	-	65		
	Pre-Construction	-	-	-	-	-	-	-		
239 Renovation & Optimization - 101 Consumers	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		
	Pre-Construction	_	-	-	-	-	-	-		
241 Installation of Fencing - Plants North - Blackstock Well #6	Construction	-	65	-	-	-	-	65		
#0	Total	-	65	-	-	-	-	65		
	Pre-Construction	_	-	-	-	-	73	73		
242 20 Bay Cold Vehicle Storage - Orono Depot Expansion	Construction	-	-	-	-	-	1,192	1,192		
	Total	-	-	-	-	-	1,265	1,265		
	Pre-Construction	-	-	-	-	-	117	117		
243 Salt and Brine Storage Building - Orono Depot Expansion	Construction	-	-	-	-	-	1,050	1,050		
Expansion	Total	-	-	-	-	-	1,167	1,167		
	Pre-Construction	12,667	1,667	-	-	-	-	1,667		
244 Depot Rationalization - New Oshawa/Whitby Depot	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		

Durham Budget	Expenditure Category	2023 Proposed Budget	Forecast					
			2024	2025	2026	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								
250 Ajax Water Supply Plant - Chlorine line replacement	Pre-Construction	-	-	-	-	-	-	-
	Construction	-	750	-	-	-	-	750
	Total	-	750	-	-	-	-	750
Ajax Water Supply Plant - pump replacement with variable frequency drive	Pre-Construction	100	-	-	-	-	-	-
	Construction	-	500	-	-	-	-	500
	Total	100	500	-	-	-	-	500
Ajax Water Supply Plant - hyochlorite feed and control system upgrades	Pre-Construction	100	-	-	-	-	-	-
	Construction	500	-	-	-	-	-	-
	Total	600	-	-	-	-	-	-
Rosebank 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	-	-	-	-	-	600	600
	Construction	-	-	-	-	-	2,100	2,100
	Total	-	-	-	-	-	2,700	2,700

Durham 😤	<b>–</b> –				Foreca	st			
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Charmana d Water Duraning Station ungraded in ungr	Pre-Construction	250	-	-	-	-	-	-	
254 Cherrywood Water Pumping Station upgrades - pumps and feedermain, Pickering	Construction	-	1,800	-	-	-	-	1,800	
and recommany, i lokening	Total	250	1,800	-	-	-	-	1,800	
Cherrywood Water Pumping Station - Station upgrades	Pre-Construction	-	-	-	600	-	-	600	
255 Electrical System Study, Grounding Study, Replacement	Construction	-	-	-	-	2,100	-	2,100	
<sup>255</sup> of the Motor Control Centre, Diesel transfer switch and Standby power	Total	-	-	-	600	2,100	-	2,700	
	Pre-Construction	-	-	-	-	-	-	-	
256 Finch Ave. Elevated Water Storage Tank - Recoating	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	
	Pre-Construction	-	-	-	-	-	-	-	
Grandview Water Pumping Station - Station upgrades	Construction	-	2,500	-	-	-	-	2,500	
<ul> <li>Electrical System Study, Grounding Study, Replacement</li> <li>of the Motor Control Centre, Diesel transfer switch,</li> <li>Standby power and Variable-frequency drive (VFD)</li> </ul>	Total	-	2,500	-	-	-	-	2,500	
	Pre-Construction	-	-	-	-	-	-	-	
259 Thickson Rd. Water Pumping Station - replacement of the motor control centre (MCC)	Construction	-	50	-	-	-	-	50	
	Total	-	50	-	-	-	-	50	
	Pre-Construction	-	-	-	-	-	-	-	
260 Oshawa Water Supply Plant - Valve Chamber Upgrades	Construction	-	-	-	-	-	1,150	1,150	
	Total	-	-	-	-	-	1,150	1,150	
Oshawa Water Supply Plant - Replacement/rehabilitation	Pre-Construction	300	-	-	-	-	-	-	
261 of the sedimentation tanks, Header & Backwash valves, and piping	Construction	-	-	-	-	-	2,900	2,900	
	Total	300	-	-	-	-	2,900	2,900	

# Appendix B: 2023-2032 Water Supply System 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.

Durham 😤					Forecas	st		
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Oshowa Water Supply Plant - Deplecement of the Mater	Pre-Construction	-	-	-	-	-	500	500
262 Oshawa Water Supply Plant - Replacement of the Motor Control Centre	Construction	-	-	-	-	-	1,000	1,000
	Total	-	-	-	-	-	1,500	1,500
Oshowo Water Supply Plant upgrading the	Pre-Construction	-	-	-	-	-	-	-
263 Oshawa Water Supply Plant - upgrading the uninterrupted power supply UPS	Construction	-	-	900	-	-	-	900
	Total	-	-	900	-	-	-	900
Oshowa Water Supply Plant - Dehabilitation of the filters	Pre-Construction	-	-	-	1,200	-	-	1,200
Oshawa Water Supply Plant - Rehabilitation of the filters 1 to 6	Construction	-	-	-	3,000	-	8,400	11,400
	Total	-	-	-	4,200	-	8,400	12,600
Waverly Rd. Water Pumping Station - Station upgrades	Pre-Construction	-	-	-	-	-	-	-
265 Electrical System Study, Grounding Study, Replacement	Construction	-	-	2,450	-	-	-	2,450
of the Motor Control Centre, Diesel transfer switch and Standby power	Total	-	-	2,450	-	-	-	2,450
	Pre-Construction	500	-	-	-	-	-	-
266 Taunton Rd. Water Pumping Station and Reservoir - station improvements and replacement	Construction	-	-	2,300	-	-	-	2,300
station improvements and replacement	Total	500	-	2,300	-	-	-	2,300
Deurona an ille Michael Cumalu Dicata - Encanada an Declause b	Pre-Construction	-	-	-	-	-	-	-
267 Bowmanville Water Supply Plant - Emergency Backwash piping and Filter bypass piping upgrades	Construction	-	-	200	-	-	-	200
piping and rinter bypass piping upgrades	Total	-	-	200	-	-	-	200
	Pre-Construction	-	-	-	-	-	-	-
268 Bowmanville Water Supply Plant - Filter Replacement	Construction	-	-	1,000	-	-	-	1,000
	Total	-	-	1,000	-	-	-	1,000
Pourmanyilla Zana 2 Poponyair atandhy nawar with	Pre-Construction	-	-	-	-	-	-	-
269 Bowmanville Zone 2 Reservoir - standby power with transfer switch	Construction	-	750	-	-	-	-	750
	Total	-	750	-	-	-	-	750
Bowmanville Water Supply Plant - header and pump	Pre-Construction	-	-	-	-	-	-	-
270 replacement with associated piping	Construction	-	-	1,500	-	-	-	1,500
rehabilitation/replacement	Total	-	-	1,500	-	-	-	1,500

	Durham 🕄					Forec	ast		
	Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Deumennulle Weter Sumply Plant - Chlaving ling	Pre-Construction	-	-	-	-	-	200	200
271	Bowmanville Water Supply Plant - Chlorine line replacement	Construction	-	-	-	-	-	1,400	1,400
	replacement	Total	-	-	-	-	-	1,600	1,600
	Neurosette Water Summly Plant - Oblaving ling	Pre-Construction	-	-	-	-	-	200	200
272	replacement	Construction	-	-	-	-	-	1,400	1,400
		Total	-	-	-	-	-	1,600	1,600
	Newtonville Water Pumping Station - Station upgrades	Pre-Construction	-	-	-	-	-	600	600
273	Electrical System Study, Grounding Study, Replacement	Construction	-	-	-	-	-	2,000	2,000
213	of the Motor Control Centre, Diesel transfer switch and Standby power	Total	-	-	-	-	-	2,600	2,600
	Orono Water Supply System - upgrades Electrical	Pre-Construction	-	-	-	-	-	700	700
274	System Study, Grounding Study, Replacement of the	Construction	-	-	-	-	-	2,200	2,200
274	Motor Control Centre, Diesel transfer switch, Standby power and uninterrupted power supply UPS	Total	-	-	-	-	-	2,900	2,900
	Mill St. Water Pumping Station - Station upgrades	Pre-Construction	-	600	-	-	-	-	600
275	Electrical System Study, Grounding Study, Replacement	Construction	-	-	-	-	-	2,000	2,000
215	of the Motor Control Centre, Diesel transfer switch and Standby power	Total	-	600	-	-	-	2,000	2,600
		Pre-Construction	-	-	-	-	-	-	-
276	Sunderland Standpipe Water Storage Tank - Recoating	Construction	-	-	800	-	-	-	800
		Total	-	-	800	-	-	-	800
	Beaverton Water Supply Plant - upgrades Electrical	Pre-Construction	250	-	-	-	-	-	-
	<ul> <li>System Study, Grounding Study, Replacement of the</li> <li>Motor Control Centre, Diesel transfer switch, Standby power, uninterrupted power supply (UPS) and Ultraviolet disinfection system</li> </ul>	Construction	-	-	-	-	2,600	-	2,600
277		Total	250	-	-	-	2,600	-	2,600

Durham °					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Proverten Water Supply Plant Chloring Solution ling	Pre-Construction	-	-	-	-	-	-	-
278 Beaverton Water Supply Plant - Chlorine Solution line replacement	Construction	-	-	1,000	-	-	-	1,000
	Total	-	-	1,000	-	-	-	1,000
	Pre-Construction	-	-	-	-	-	2,000	2,000
279 Beaverton Water Supply Plant - Filter modifications	Construction	-	-	-	-	-	5,000	5,000
	Total	-	-	-	-	-	7,000	7,000
	Pre-Construction	-	-	-	-	-	-	-
280 Automatic Bulk Water Dispensing System - Various	Construction	-	-	-	2,000	3,700	4,100	9,800
	Total	-	-	-	2,000	3,700	4,100	9,800
201 Emergency Generator Fuel Tank Compliance upgrades	Pre-Construction	-	-	-	-	-	-	-
281 Phase 3 and Phase 4	Construction	400	-	-	-	-	-	-
	Total	400	-	-	-	-	-	-
282 Replace Uninterrupted Power Supply (UPS) Batteries - Ajax WSP		50	-	-	-	-	-	-
283 Sulphuric Acid Pump Replacement - Ajax WSP		240	-	-	-	-	-	-
284 Sump Pump Systems - Ajax WSP		123	230	-	-	-	-	230
<ul> <li>287 Integrated Control Technology - Security Project - Various Locations</li> </ul>		307	-	-	-	-	-	-
288 48" Round Shoring - Sunderland Depot		-	3	-	-	-	3	6
290 Pipe Locator - Sunderland Depot		-	3	-	-	-	3	6
291 Pressure Washer - Sunderland Depot		-	3	3	-	-	-	6
292 Snow Fence Replacement - Sunderland Depot		-	-	-	-	-	6	6

Durham 🕄		2022 Drenegad			Forecas	st		
Budget S	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 🛛 😤 🗉	xpenditure	2023 Proposed			Forecast			
	Category	Budget	2024	2025	2026	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 🕄								
Budget 8	Category	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 - Various Locations		-	-	216	-	-	-	216
329 Standard Laptop		-	2	-	-	-	-	2
330 PLC & Computer Scada Upgrades - Ajax WSP		-	100	-	-	-	-	100
<ul><li>Water SCADA - Hardware, Software and</li><li>Communications - Various Locations</li></ul>		-	935	161	100	273	272	1,741
<ul> <li>GIS Hardware (Monitors, backup devices and other) -</li> <li>Data System Management</li> </ul>		5	-	-	-	-	-	-
333 Power Laptop		15	22	2	6	6	7	43

Durham 🕄			Forecast					
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	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	-	-	-	-	-	-
Information Technology Subtotal		182	10,128	3,367	5,904	508	1,303	21,210

Appendix B: 2023-2032 Water Supply System Capital Forecas Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix A for financing de		2023.					
<b>Durham</b> S Expenditure				Forecas	st		
Durnam BudgetSExpenditure Category	2023 Proposed Budget	2024	2025	2026	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
<ul> <li>Asphalt Grinder Attachement (Skid Steer Loader) -</li> <li>Oshawa/Whitby Depot</li> </ul>	-	-	-	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	-	-	-	-	-	-

Appendix B: 2023-2032 Water Supply System Capital Forecast (\$,000's) rovides 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.										
Durham 🕄					Forecas	st				
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	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		

	a listing for all projects within the 2023 budget and nine-year capital forecast. See A			n 2023.					
	Durham 🕄					Forecas	st		
	Durham & Solution	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Allowa	ances & Other Provisions								
	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
	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
	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
	Allowance for land severance review and drawing requirements		100	100	100	100	100	500	900

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.

Durham 🕄			Forecast						
Budget S	Expenditure Category	2023 Proposed Budget	2024	2025	2026	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 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 0	Grand 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							
Rate Stabilization 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 Provides financing details for capital projects proposed in 2	e System ( 023. See Apper	Capital Project	<b>ts (\$,000's)</b> ensive 2023 capita	al budget and 202	24-2032 forecast										
Durker 0						2023	Proposed Fina	ncing					Proposed		
Durham 88	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	2023 Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Total Project to 2032
Sanitary Sewerage System															
Linear Infrastructure															
<sup>1</sup> R.R. 2A (Centre St). from King St. to Brock St. West, Oshawa	-	-	-	-	-	-	-	-	-	-	400	400	1,485	-	1,885
<sup>3</sup> 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 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 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

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20	System ( 23. See Appe	Capital Project	<b>Cts (\$,000's)</b> thensive 2023 capita	al budget and 2024	1-2032 forecast										
						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
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	-	-	-	1,600	-	-	-	-	-	-	-	1,600	1,705	-	3,305
29 Replacement of sanitary sewer between Birch Court and Glynn Rd., Ajax	-	-	-	-	-	-	-	-	-	-	150	150	-	500	650
30 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
Replacement of sanitary sewer on Olive Ave from Simcoe St. to Drew St., Oshawa	-	-	-	-	-	-	-	-	-	-	260	260	1,605	-	1,865
41 Replacement of sanitary sewer on Conant St. from Myers Rd. to Nelson St., Oshawa	-	-	-	150	-	-	-	-	-	-	-	150	-	390	540
44 Replacement of sanitary sewer on Simcoe St. from Metcalf St. to Quebec St., Oshawa	-	-	-	150	-	-	-	-	-	-	-	150	925	-	1,075
46 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 Replacement of sanitary sewer on First Ave. from Brock St. to Dominion St., Uxbridge	-	-	-	150	-	-	-	-	-	-	-	150	100	330	580
49 Evaluation of trunk sanitary sewers/gravity sewers at creek crossings	-	-	-	-	-	-	-	-	-	-	75	75	75	225	375
52 Sanitary Sewer on Meadow St. from Avalon St. to Manor Dr., Oshawa	-	-	-	-	-	-	-	-	-	-	100	100	-	260	360

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20.				al budget and 202	4-2032 forecast										
						2023	Proposed Finan	cing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
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 Sewer on future mid-block road from Trulls Rd. to Courtice Rd. & Courtice Rd. from mid- block 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

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20	23. See Appe	Capital Projec	<b>ts (\$,000's)</b> nensive 2023 capit	al budget and 202	24-2032 forecast										
						2023	Proposed Finar	ncing				2023	Proposed		Total
Durham 82	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
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 102 Sewage Pumping Station and twinning of the forcemain, Oshawa	-		-	-	-	-	115	1,845	-	-	540	2,500	2,802	70,700	76,002
106 Expansion of Courtice Water Pollution Control Plant from 68 MLD to 136 MLD	-		-	-	-	-	26	168	-	-	806	1,000	-	153,400	154,400
109 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 Depot Rationalization - Ajax Depot Expansion	-	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

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20				l budget and 202	24-2032 forecast										
🔊 Durham 🛛 🕄						2023	Proposed Fina	ncing				2023	Proposed	_	Total
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
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 Depot Rationalization - New Oshawa/Whitby Depot	-	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 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 Provides financing details for capital projects proposed in 20	e System	Capital Projec	ts (\$,000's) hensive 2023 capital	budget and 202	4-2032 forecast										
🔊 Durham 🛛 🕄						2023	Proposed Fina	ncing				2023	Proposed		Total
Budget R	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
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 - 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 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 and associated sanitary sewerage pumping stations - PLC and SCADA system upgrades	-		-	500	-	-	-	-	-	-	-	500	600	6,000	7,100

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 2	e System ( 023. See Appe	Capital Project ndix D for the compreh	<b>ts (\$,000's)</b> ensive 2023 capital	l budget and 202	24-2032 forecast										
Durham 🕄						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
179 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 Gyratory Compactor/Molds/Equipment - Construction	1	New	-	-	-	-	-	-	-	-	22	22	-	-	22
188 Nuclear Densometer - Construction	1	Replacement	-	-	-	-	-	-	-	-	3	3	-	-	3
195 Chemical Pump Replacement - Various Locations	2	Replacement	-	-	-	-	-	-	-	-	18	18	-	-	18
199 Grit Blower Rebuild - Courtice WPCP	1	Replacement	-	-	-	-	-	-	-	-	10	10	-	-	10
203 Analytical Balance Bench Scale - Duffin Creek WPCP	1	New	12	-	-	-	-	-	-	-	3	15	-	-	15
204 Auto Sampler Replacement - Duffin Creek	1	Replacement	20	-	-	-	-	-	-	-	5	25	-	-	25
206 BAS Server Replacement - Duffin Creek	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 Dock Leveler Replacement - Duffin Creek WPCP	1	Replacement	23	-	-	-	_	_	-	_	7	30	-	-	30

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20				budget and 202	24-2032 forecast										
						2023	Proposed Final	ncing				2023	Proposed		Total
Durham SS	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
217 DR3900 Spectrophotometer - Duffin Creek WPCP	1	New	12	-	-	-	-	-	-	-	3	15	-	-	15
224 Integrated Control Technology - Security Project - Various Locations	6	New	-	-	-	-	-	-	-	-	311	311	-	-	311
230 Polymer Building PRAP Network Upgrades - Duffin Creek WPCP	1	Replacement	31	-	-	-	-	-	-	-	9	40	-	-	40
251 Secondary Clarifier (Circular) Gearbox - Duffin Creek WPCP	2	Replacement	195	-	-	-	-	-	-	-	45	240	-	-	240
263 Biochemical Oxygen Demand (BOD) Incubators - Environmental Lab	2	Replacement	20	-	-	-	-	-	_	-	20	40	-	-	40
264 Biological Oxygen Demand Analyzer - Environmental Lab	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 Gas Chromatograph / Mass Spectrometer / MS (Extractables) - Environmental Lab	1	Replacement	-	300	) -	-	-	-	-	-	-	300	-	-	300
282 Microscope - Environmental Lab	1	Replacement	-	75	5 -	-	-	-	-	-	-	75	-	-	75
290 Solids Manifold - Environmental Lab	2	Replacement	10	_	-	-	_	-	-	_	10	20	-	_	20
295 Water Purification System - Environmental Lab	1	Replacement	13	-	-	-	-	-	_	-	12	25	-	-	25

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20				budget and 202	4-2032 forecast										
				-		2023	Proposed Fina	ncing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
298 RAS Piping - Nonquon WPCP	1	New	-	-	-	-	-	-	-	-	95	95	-	-	95
302 Backflow Preventer Device Replacement - 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 Electrical Equipment Replacements - WPCP 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) Provides financing details for capital projects proposed in 2023, See Appendix D for the comprehensive 2023 capital budge

Durham 0						2023	Proposed Final	ncing				2023	Proposed		Total
Durham 80	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
333 SCADA Programming Software Upgrade (ifix) - Duffin Creek WPCP	1	Replacement	39	-	-	-	-	-	-	-	11	50	-	-	5
334 SCADA Workstations (Desktops) - Duffin Creek WPCP	1	New	8	-	-	-	-	-	-	-	2	10	-	-	10
335 Barcode Printers - Environmental Lab	4	Replacement	4	-	-	-	-	-	-	-	4	8	-	-	٤
337 LIMS Computer System - Environmental Lab	1	Replacement	-	100	-	-	-	-	-	-	-	100	-	-	100
339 Power Laptop (with Monitor) - Various Locations	3	New	-	-	-	-	-	-	-	-	5	5	-	-	Ę
341 Computers & Monitors Refresh - Financial Services	1	Replacement	-	-	-	-	-	-	-	-	265	265	-	-	265
Information Technology Infrastructure Subtotal			51	100	-	-	8	136	-	-	668	963	-	2,800	3,76
/ehicles															
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			1(

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Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20	<b>System (</b> 023. See Apper	Capital Projec	<b>:ts (\$,000's)</b> hensive 2023 capita	l budget and 202	4-2032 forecast										
🔊 Durham 🛛 🕄						2023	Proposed Finar	ncing				2023	Proposed		Total
Durham 88 Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
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
York Durham Sanitary Sewerage Master Plan	-		369	-	-	-	-	-	-	-	131	500	-	500	1,000
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
Allowance for sundry extensions as per Council policy	-		-	-	-	-	-	-	-	-	15	15	-	135	150
380 Allowance for unknown requirements	-		-	-	-	-	-	-	-	-	100	100	-	900	1,000
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) Provides financing details for capital projects proposed in 2023. See Appendix D for the comprehensive 2023 capital budget and 2024-2032 forecast

Durham 😵						2023	Proposed Finar	ncing				2023	Proposed		Total
Budget Quantity Repla	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032	
383 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 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:

2023 Other Recovery From York 40,691 Total Other Financing 40,691

\*\*\* Appendix C includes Reserve financing as follows:

- Reserve Fund 2023 Asset Management Reserve Fund - Sewer 11,107 Rate Stabilization Reserve Fund - Sewer 442 Pre-Servicing of Employment Lands Reserve Fund - Sewer -Reserve Fund - Environmental Lab 475 Equipment Replacement Reserve -
  - Total Reserve/Reserve Fund Financing 12,024

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

	2023
DC Shortfall	
Residential DC Shortfall	0
Commercial DC Shortfall	0
Institutional DC Shortfall	169
Industrial DC Shortfall	10,215
Total DC Shortfall	10,384

#### Shortfall Financing Source

Rate Stabilization Reserve Fund\_Sewer Debenture - DC Funded User Rate \_\_\_\_\_10,384 Total Funding 10,384

Appendix D: 2023-2032 Sanitary Sewerage Sys Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See			d in 2023.						
Durham 🕄	Expenditure	2023 Proposed	Forecast						
Durham Budget 82	Category	Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Sanitary Sewerage System									
_inear Infrastructure									
D.D. 24 (Contro St) from King St to Brook St West	Pre-Construction	-	-	-	-	-	-	-	
R.R. 2A (Centre St). from King St. to Brock St. West, Oshawa	Construction	400	-	-	-	-	-	-	
Conawa	Total	400	-	-	-	-	-	-	
R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville	Pre-Construction	-	-	-	-	-	-	-	
	Construction	-	-	-	-	6,400	-	6,40	
	Total	-	-	-	-	6,400	-	6,40	
	Pre-Construction	225	-	-	-	-	-	-	
<sup>3</sup> R.R. 16 ( Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa	Construction	-	-	1,450	-	-	-	1,45	
Oshawa	Total	225	-	1,450	-	-	-	1,45	
R. R. 22 (Revuly St.) from Mostroy Rd. to Howyood Ave	Pre-Construction	-	-	-	-	-	-	-	
<ul> <li>R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave.,</li> <li>Ajax</li> </ul>	Construction	-	-	-	-	2,300	-	2,30	
Лал	Total	-	-	-	-	2,300	-	2,30	
D.D. 20 (Hambing Ot.) from Computer Dr. to Dundar	Pre-Construction	-	220	-	-	-	-	22	
<ul> <li><sup>5</sup> R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby</li> </ul>	Construction	-	-	-	-	-	1,450	1,450	
St., Whitby	Total	-	220	-	-	-	1,450	1,67	
D.D. 27 (Finale Ave.) from Altone Del to Drask Del	Pre-Construction	-	-	-	70	-	-	70	
6 R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd.,	Construction	-	-	-	-	-	120	120	
Pickering	Total	-	-	-	70	-	120	190	
	Pre-Construction	-	-	-	-	-	-	-	
7 R.R. 52 (Thornton Rd.) from King St. to Stellar Dr., Oshawa	Construction	-	-	170	-	-	-	170	
Usilawa	Total	-	-	170	-	-	-	17(	

Durham 9					Foreca	st		
Durham 800	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	-	-	-	-
R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St.,	Construction	-	-	870	-	-	-	870
Oshawa	Total	-	-	870	-	-	-	870
	Pre-Construction	-	150	-	-	-	-	150
9 R.R. 57 (Bowmanville Ave.) from Stevens Rd. to Nash Rd., Bowmanville	Construction	-	-	-	-	-	1,100	1,100
Ru., bowmannine	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
D.D. 50 (Cibb St.)(Olive Ave. Extension from Drow St. to	Pre-Construction	-	-	-	-	-	-	-
11 R.R. 59 (Gibb St.)/Olive Ave. Extension from Drew St. to Ritson Rd., Oshawa	Construction	-	-	-	570	-	-	570
	Total	-	-	-	570	-	-	570
Allowance for conitory cowers in conjunction with the	Pre-Construction	-	-	-	-	-	-	-
12 Allowance for sanitary sewers in conjunction with the Regional Road Program	Construction	-	-	-	300	-	8,600	8,900
	Total	-	-	-	300	-	8,600	8,900
	Pre-Construction	-	35	35	35	35	175	315
13 City of Pickering Road Program	Construction	-	200	200	200	200	1,000	1,800
	Total	-	235	235	235	235	1,175	2,115
	Pre-Construction	-	65	65	65	65	325	585
14 Town of Ajax Road Program	Construction	-	300	300	300	300	1,500	2,700
	Total	-	365	365	365	365	1,825	3,285
	Pre-Construction	-	100	100	100	100	500	900
15 Town of Whitby Road Program	Construction	-	500	500	500	500	2,500	4,500
	Total	-	600	600	600	600	3,000	5,400

Durham 🕄					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	170	200	200	200	200	1,000	1,800
16 City of Oshawa Road Program	Construction	400	900	900	900	900	4,500	8,100
	Total	570	1,100	1,100	1,100	1,100	5,500	9,900
	<b>Pre-Construction</b>	75	75	75	75	75	375	675
17 Municipality of Clarington Road Program	Construction	200	225	225	225	225	1,125	2,025
	Total	275	300	300	300	300	1,500	2,700
	Pre-Construction	50	10	10	10	10	50	90
18 Township of Scugog Road Program	Construction	150	65	65	65	65	325	585
	Total	200	75	75	75	75	375	675
19 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
	Pre-Construction	-	30	30	30	30	150	270
20 Township of Brock Road Program	Construction	-	90	90	90	90	450	810
	Total	-	120	120	120	120	600	1,080
Allowance for unknown sanitary sewerage requirements	Pre-Construction	200	200	200	200	200	1,000	1,800
21 in conjunction with area municipality road programs in	Construction	-	-	-	-	-	-	-
various locations	Total	200	200	200	200	200	1,000	1,800
Sanitary Sewer replacement in conjunction with the	Pre-Construction	-	-	-	-	-	-	-
22 Metrolinx Toronto East Rail Corridor expansion to	Construction	-	3,100	-	-	-	-	3,100
Bowmanville	Total	-	3,100	-	-	-	-	3,100
Allowonce for conitory cowers in conjunction with the	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Allowance for sanitary sewers in conjunction with the</li> <li>MTO &amp; GO Transit projects</li> </ul>	Construction	-	100	100	100	100	500	900
	Total	-	100	100	100	100	500	900
Sanitary sewerage works to rectify identified system 24 deficiencies independent of road programs in various	Pre-Construction	-	-	-	-	-	-	-
	Construction	400	650	650	650	650	3,250	5,850
locations	Total	400	650	650	650	650	3,250	5,850

Durham 9					Foreca	st		
Durham Budget	Expenditure 2023 Proposed Category Budget	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Dehabilitation of existing conitary covers in various	Pre-Construction	-	-	-	-	-	-	-
25 Rehabilitation of existing sanitary sewers in various locations	Construction	457	490	338	1,000	1,000	5,000	7,828
100410113	Total	457	490	338	1,000	1,000	5,000	7,828
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)	<b>Pre-Construction</b>	-	-	3,000	-	-	17,375	20,375
	Construction	-	-	-	-	-	52,125	52,125
	Total	-	-	3,000	-	-	69,500	72,500
	Pre-Construction	250	-	-	-	-	-	-
<ul> <li>Trunk Sanitary Sewer Rehabilitation from Lord Elgin</li> <li>Park to Kingston Rd. (Highway No. 2), Ajax</li> </ul>	Construction	-	1,000	-	5,000	5,000	-	11,000
Park to Kingston Rd. (Highway No. 2), Ajax	Total	250	1,000	-	5,000	5,000	-	11,000
Replacement of the trunk sanitary sewer from Harwood	Pre-Construction	-	-	-	-	-	-	-
28 Ave. south and Edward St. through Lord Elgin Park to	Construction	1,600	-	-	-	-	-	-
the intersection of Chadwick Dr. and Adams Dr., Ajax	Total	1,600	-	-	-	-	-	-
Dealessment of earlier ensure between Birch Court and	Pre-Construction	150	-	-	-	-	-	-
29 Replacement of sanitary sewer between Birch Court and Glynn Road, Ajax	Construction	-	500	-	-	-	-	500
Giyiii Noad, Ajax	Total	150	500	-	-	-	-	500
Deplessment of the conitery cover on Uirk Ot from	<b>Pre-Construction</b>	-	-	-	-	-	-	-
30 Replacement of the sanitary sewer on High St. from Mary St. to Walnut St., Whitby	Construction	175	-	-	-	-	-	-
	Total	175	-	-	-	-	-	-
Deplesement of conitary couver on Depoven Cross from	Pre-Construction	215	-	-	-	-	-	-
Replacement of sanitary sewer on Donovan Cres. from Walton Blvd. to 30 m east of Walton Blvd., Whitby	Construction	-	430	-	-	-	-	430
	Total	215	430	-	-	-	-	430
Replacement of sanitary sewer on Water St. from the	Pre-Construction	-	-	-	-	-	-	-
32 Whitby Water Supply Plant to Breakwater Sanitary	Construction	-	920	-	-	-	-	920
Sewage Pumping Station, Whitby	Total	-	920	-	-	-	-	920

Durham 🕫					Foreca	st		
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Denlagen och af den iken der en Hillen at De fram	Pre-Construction	-	-	-	-	150	-	150
<ul> <li>Replacement of sanitary sewer on Hillcrest Dr. from</li> <li>Beech St. W/L to Beech St. E/L, Whitby</li> </ul>	Construction	-	-	-	-	840	-	840
	Total	-	-	-	-	990	-	990
Depletement of conitary cours on Athel St. from St.	<b>Pre-Construction</b>	-	130	-	-	-	-	130
Replacement of sanitary sewer on Athol St. from St. Lawrence St. to Clemence St., Whitby	Construction	-	-	-	300	-	-	300
	Total	-	130	-	300	-	-	430
Deplesement of conitony cover on St. Lowrence, St. from	Pre-Construction	-	100	-	-	-	-	100
35 Replacement of sanitary sewer on St. Lawrence St. from Brock St. to Athol St., Whitby	Construction	-	-	-	120	-	-	120
	Total	-	100	-	120	-	-	220
	Pre-Construction	-	220	-	-	-	-	220
<ul> <li>Replacement of sanitary sewer on Cochrane St. from</li> <li>Ferguson St. to 125 m north of Beech St. W., Whitby</li> </ul>	Construction	-	-	1,120	-	-	-	1,120
Ferguson St. to 125 in north of beech St. W., Whitby	Total	-	220	1,120	-	-	-	1,340
	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replacement of sanitary sewer on R.R. 22 (Bloor St.)</li> <li>from Wilson Rd. to Holland St., Oshawa</li> </ul>	Construction	-	330	-	-	-	-	330
from wilson Nd. to Holland St., Oshawa	Total	-	330	-	-	-	-	330
	Pre-Construction	_	-	-	-	-	-	-
38 Replacement of sanitary sewer on Olive Ave from Simcoe St. to Drew St., Oshawa	Construction	260	-	-	-	-	-	-
Sincle St. to Diew St., Osnawa	Total	260	-	-	-	-	-	-
	Pre-Construction	-	-	-	-	-	100	100
39 Replacement of sanitary sewer on RR 22 (Bloor St.) from Cubert St. to Oxford St., Oshawa	Construction	-	-	-	-	-	330	330
from Cubert St. to Oxford St., Oshawa	Total	-	-	-	-	-	430	430
	Pre-Construction	-	-	-	-	-	500	500
40 Replacement of a sanitary sewer on Thornton Rd. from	Construction	-	-	-	-	-	1,000	1,000
<sup>40</sup> Adelaide Ave. to Tatra Dr., Oshawa	Total	-	-	-	-	-	1,500	1,500
	Pre-Construction	150	-	-	-	-	-	-
41 Replacement of sanitary sewer on Conant St. from Myers Rd. to Nelson St., Oshawa	Construction	-	-	390	-	-	-	390
iviyers Ru. to iverson St., Usnawa	Total	150	-	390	-	-	-	390

					Foreca	st		
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Deplegement of conitory couver on Ditect Dd. C. from	Pre-Construction	-	-	-	-	-	-	-
42 Replacement of sanitary sewer on Ritson Rd. S. from Kawartha Ave. to Simcoe Street South, Oshawa	Construction	-	675	-	-	-	-	675
	Total	-	675	-	-	-	-	675
Poplacement of capitary sower on Pitson Pd. South	Pre-Construction	-	-	-	-	-	-	-
43 Replacement of sanitary sewer on Ritson Rd. South from Annis St. to Conant St., Oshawa	Construction	-	385	-	-	-	-	385
	Total	-	385	-	-	-	-	385
Popleoement of conitory couver on Simooo St. from	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replacement of sanitary sewer on Simcoe St. from</li> <li>Metcalf St to Quebec St., Oshawa</li> </ul>	Construction	150	-	-	-	-	-	-
	Total	150	-	-	-	-	-	-
45 Replacement sanitary sewer on Jackson Ave from Merritt St. to Ritson Rd., Oshawa	Pre-Construction	-	-	-	-	-	-	-
	Construction	-	-	-	300	-	-	300
Monte of to Paloon Pal, Condwa	Total	-	-	-	300	-	-	300
Deplecement of coniter courses on Many St. from	Pre-Construction	150	-	-	-	-	-	-
46 Replacement of sanitary sewer on Mary St. from Rossland Rd to Robert St., Oshawa	Construction	2,000	-	-	-	-	-	-
Ressiand no rebert ot., Oshawa	Total	2,150	-	-	-	-	-	-
	Pre-Construction	-	-	-	-	-	-	-
47 Replacement of forcemain on Wilmot Creek easement from Cobbledick Rd. to Toronto St., Newcastle	Construction	1,300	-	-	-	-	-	-
Nom Cobbledick Nd. to Poronito Ot., Newcastle	Total	1,300	-	-	-	-	-	-
Deplessment of equiters equip on First Aug. from Depel	Pre-Construction	150	-	-	-	-	-	-
48 Replacement of sanitary sewer on First Ave. from Brock St. to Dominion St., Uxbridge	Construction	-	330	-	-	-	-	330
or to bommon or, oxphage	Total	150	330	-	-	-	-	330
Evolution of truck conitons course (another course of	Pre-Construction	-	-	-	-	-	-	-
49 Evaluation of trunk sanitary sewers/gravity sewers at creek crossings	Construction	75	75	75	75	-		225
	Total	75	75	75	75	-	-	225
	Pre-Construction	-	-	-	-	-	-	-
50 Replacement of sanitary sewer in various locations	Construction		-	1,300	1,818	8,004	47,109	58,231
	Total	-	-	1,300	1,818	8,004	47,109	58,231

Durham 9					Foreca	st		
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Allowance for construction of services in unserviced	Pre-Construction	-	-	-	-	-	-	-
51 areas in response to requests or petitions	Construction	-	200	200	200	200	1,000	1,800
	Total	-	200	200	200	200	1,000	1,800
Conitony Cower on Meadow St. from Ayelon St. to Menor	Pre-Construction	100	-	-	-	-	-	-
52 Sanitary Sewer on Meadow St. from Avalon St. to Manor Dr., Oshawa	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
Consident courses on Church Ch from Under Discht of Work	<b>Pre-Construction</b>	-	-	-	-	-	-	-
54 Sanitary sewer on Church St. from Hydro Right of Way to Taunton Rd., Ajax (Region's Share)	Construction	-	3,500	-	-	-	-	3,500
to Faulton Rd., Ajax (Region's Onare)	Total	-	3,500	-	-	-	-	3,500
Consident active diversion on Used Of from Western Dd	Pre-Construction	-	-	-	-	-	-	-
55 Sanitary sewer diversion on Hunt St. from Westney Rd. to Harwood Ave., Ajax	Construction	-	-	5,700	-	-	-	5,700
to Harwood Ave., Ajax	Total	-	-	5,700	-	-	-	5,700
Twinning of Duffin Creek Trunk Sanitary Sewer on	Pre-Construction	-	-	-	-	500	1,000	1,500
56 easement from Bayly St. Sanitary Sewage Pumping	Construction	-	-	-	-	-	5,700	5,700
Station to Highway 401, Ajax	Total	-	-	-	_	500	6,700	7,200
	Pre-Construction	-	-	-	_	-	_	-
Trunk Sanitary Sewer on Kingston Rd. (Highway No. 2)	Construction	11,350	-	-	-	-	-	-
from east of Harwood Ave. to east of Galea Dr., Ajax	Total	11,350	-	-	-	-	-	-
Corbett Trunk Sanitary Sewer on easement from	Pre-Construction	-	1,000	-	-	-	-	1,000
58 Wentworth St. to Corbett Creek Water Pollution Control	Construction	-	-	-	6,200	-	-	6,200
Plant, Whitby	Total	-	1,000	-	6,200	-	-	7,200

Durham 🕄			Forecast						
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Thiskoon Dd. Sub Truck conitant cower from Clangouron	Pre-Construction	-	-	-	-	-	-	-	
59 Thickson Rd. Sub-Trunk sanitary sewer from Glengowan St. to Conlin Rd., Whitby (Region's share only)	Construction	2,738	-	-	-	-	-	-	
of to committee, whitey (regions share only)	Total	2,738	-	-	-	-	-	-	
West Whithy sub trunk on Dundas St. from Dos	Pre-Construction	-	-	-	-	-	-	-	
60 West Whitby sub trunk on Dundas St. from Des Newman Blvd. to Halls Rd., Whitby	Construction	-	12,400	-	-	-	-	12,400	
Nowman Bive. to Halo Rea, Whitey	Total	-	12,400	-	-	-	-	12,400	
Brooklin Trunk Sanitary Sewer on Mid Block Arterial	Pre-Construction	-	900	-	-	-	-	900	
61 from Lynde Creek to St. Thomas St. Sanitary Sewage Pumping Station, Whitby	Construction	-	-	-	4,020	-	-	4,020	
	Total	-	900	-	4,020	-	-	4,920	
West Brooklin Trunk Sanitary Sewer from west of	Pre-Construction	-	-	-	-	-	-	-	
62 Cochrane St. to east of Highway No. 12, Whitby	Construction	4,000	6,600	-	-	-	-	6,600	
(Region's share only)	Total	4,000	6,600	-	-	-	-	6,600	
Southwest Brooklin Trunk Sanitary Sewer from west of	Pre-Construction	-	-	-	-	-	-	-	
63 Cochrane St. on New collector road to east of Highway	Construction	-	4,700	-	-	-	-	4,700	
12, Whitby (Region's share only)	Total	-	4,700	-	-	-	-	4,700	
West Control Describin Truck Constant Courses at of	Pre-Construction	-	-	-	-	-	-	-	
64 West Central Brooklin Trunk Sanitary Sewer west of Way St., Whitby (Region's share only)	Construction	-	-	1,900	-	-	-	1,900	
way St., whitby (Region's share only)	Total	-	-	1,900	-	-	-	1,900	
	Pre-Construction	-	-	-	-	-	-	-	
65 Central Brooklin Trunk Sanitary Sewer, Whitby (Region's share only)	Construction	-	4,800	-	-	-	-	4,800	
share only)	Total	-	4,800	-	-	-	-	4,800	
	Pre-Construction	-	-	-	-	-	-	-	
66 Central East Brooklin Trunk Sanitary Sewer east of Baldwin St., Whitby (Region's share only)	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	
Ta., Whitby (Tegion's share only)	Total	-	3,200	-	-	-	-	3,200	

Durham 9					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Senitary Sewer on level read from Windfields Form Dr	Pre-Construction	-	-	120	-	-	-	120
68 Sanitary Sewer on local road from Windfields Farm Dr. to Winchester Rd., Oshawa	Construction	-	-	-	1,000	-	-	1,000
	Total	-	-	120	1,000	-	-	1,120
sanitary Sewer on Stevenson Rd. from Taunton Rd. to	Pre-Construction	-	300	-	-	-	-	300
69 Conlin Rd., Oshawa	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	-	-	-	-	-	-
Ash Creek Trunk Sanitary Sewer from Consumers	Pre-Construction	-	-	1,500	-	-	2,500	4,000
71 Dr./Green Rd. to Ash Creek Trunk Sanitary Sewage at	Construction	-	-	-	-	-	16,000	16,000
the former Pringle Creek Water Pollution Control Plant, Whitby	Total	-	-	1,500	-	-	18,500	20,000
	Pre-Construction	-	1,300	-	-	-	-	1,300
72 Mid Block Arterial Forcemain from Whitby/ Oshawa Boundary to Durham College easement, Whitby/Oshawa	Construction	-	-	-	6,700	-	-	6,700
boundary to burnam conege easement, whitby osnawa	Total	-	1,300	-	6,700	-	-	8,000
	Pre-Construction	-	-	-	800	-	-	800
73 Farewell Creek Trunk Sanitary Sewer twinning on easement west of Grandview St., Oshawa	Construction	-	-	-	-	-	2,700	2,700
easement west of Grandview St., Oshawa	Total	-	-	-	800	-	2,700	3,500
Twinning of northwest branch of Harmony Creek Sub-	Pre-Construction	150	320	-	-	-	-	320
74 Trunk Sanitary Sewer from Central Park Blvd N. & Hillcroft St. to Beatrice St., Oshawa	Construction	-	-	2,200	-	-	-	2,200
	Total	150	320	2,200	-	-	-	2,520
North Oshawa Creek (East branch) Trunk Sanitary	Pre-Construction	-	-	-	-	-	-	-
75 Sewer on easement from Arctic Red Dr. to Winchester	Construction	-	-	5,000	-	-	-	5,000
Rd., Oshawa (Region's Share only)	Total	-	-	5,000	-	-	-	5,000

Durham 9					Foreca	st		
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
North Oshawa Creek (East Branch) Trunk Sanitary	Pre-Construction	-	-	-	-	-	-	-
76 Sewer on easement from southeast of Thornton Rd. to	Construction	-	-	-	-	-	4,500	4,500
Simcoe St., Oshawa (Region's share only)	Total	-	-	-	-	-	4,500	4,500
Twinning of Ophows Crock Trunk Senitory Source from	Pre-Construction	-	-	-	250	-	-	250
77 Twinning of Oshawa Creek Trunk Sanitary Sewer from Gibb St. to Greenwood Ave., Oshawa	Construction	-	-	-	-	-	1,200	1,200
	Total	-	-	-	250	-	1,200	1,450
<ul> <li>Forcemain on Conlin Rd. from Ritson Rd. to Harmony</li> <li>Rd., Oshawa</li> </ul>	Pre-Construction	-	-	-	-	-	-	-
	Construction	-	-	9,200	-	-	-	9,200
	Total	-	-	9,200	-	-	-	9,200
North Oshawa Creek (West Branch) Trunk Sanitary	Pre-Construction	-	1,000	-	-	-	-	1,000
79 Sewer from Conlin Rd. Sanitary Sewage Pumping	Construction	-	-	-	4,500	-	-	4,500
Station to Britannia Ave., Oshawa	Total	-	1,000	-	4,500	-	-	5,500
North Oshawa Creek (West Branch) Trunk Sanitary	Pre-Construction	-	3,000	-	-	-	-	3,000
80 Sewer from south side of hydro corridor to Columbus	Construction	-	-	-	19,300	-	-	19,300
Rd., Oshawa	Total	-	3,000	-	19,300	-	-	22,300
	Pre-Construction	3,000	-	-	-	-	_	-
81 Courtice Trunk Sanitary Sewer - Trulls Rd. from Bloor St. to future Adelaide Ave., Courtice	Construction	-	52,700	-	-	-	-	52,700
to future Adelaide Ave., Courtice	Total	3,000	52,700	-	-	-	-	52,700
	Pre-Construction	1,200	-	-	-	-	-	-
82 Courtice Trunk Sanitary Sewer - Adelaide Ave. from	Construction	7,600	4,300	4,300	44,800	-	-	53,400
Trulls Rd. to Townline Rd., Courtice	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 Budget	Expenditure Category	2023 Proposed Budget	Forecast					
				2024	2025	2026	2027	2028-2032	Forecast Total
84	Southwest Courtice Sub -Trunk Sanitary Sewer on Baseline Rd. from Trulls Rd. to 650 m west of Trulls Rd., Courtice	Pre-Construction	-	-	-	-	-	-	-
		Construction	-	-	4,600	-	-	-	4,600
		Total	-	-	4,600	-	-	-	4,600
85	Southeast Courtice Sub-Trunk Sanitary Sewer on future 5 mid-block road from Trulls Rd. to Courtice Rd. & Courtice Rd. from mid-block to Bloor St., Courtice	Pre-Construction	-	-	-	-	-	-	-
		Construction	5,300	-	-	-	-	-	-
		Total	5,300	-	-	-	-	-	-
	Baseline Rd. Trunk Sanitary Sewer from Simpson Ave. to Bennett Rd., Bowmanville	Pre-Construction	-	-	-	-	-	-	-
86		Construction	-	16,900	-	14,000	-	-	30,900
		Total	-	16,900	-	14,000	-	-	30,900
	, Bennett Rd. Trunk Sanitary Sewer from Baseline Rd. to Highway No. 2, Bowmanville (Region's share only)	Pre-Construction	-	-	-	-	-	-	-
87		Construction	-	-	-	-	-	1,700	1,700
		Total	-	-	-	-	-	1,700	1,700
	Port Darlington Rd. Trunk Sanitary Sewer from Baseline Rd. to existing easement, Bowmanville	Pre-Construction	-	-	-	-	-	-	-
88		Construction	-	24,300	-	-	-	-	24,300
		Total	-	24,300	-	-	-	-	24,300
	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
89		Construction	-	-	-	-	-	5,000	5,000
		Total	-	-	-	-	1,000	6,000	7,000
	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	-	-	-	-	-	-	-
90		Construction	-	1,650	-	-	-	-	1,650
90		Total	-	1,650	-	-	-	-	1,650
	Foster Creek Trunk Sanitary Sewer on Sunset Blvd./ Lakeview Rd. from Rudell Rd. to Church St., Newcastle	Pre-Construction	-	-	-	-	-	-	-
91		Construction	-	11,000	-	-	-	-	11,000
		Total	-	11,000	-	-	-	-	11,000
	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
92		Construction	-	-	-	-	-	-	-
		Total	-	2,900	-	-	-	-	2,900
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Durham 😤	Expenditure Category	2023 Proposed Budget	Forecast					
Budget S			2024	2025	2026	2027	2028-2032	Forecast Total
Sanitary Sewer on Concession Rd. 5 to service the	Pre-Construction	-	-	-	-	-	-	-
93 westerly portion of the Beaverton Avenue Employment	Construction	-	3,600	-	-	-	-	3,600
Area A, Brock	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								
	Pre-Construction	-	-	-	340	500	-	840
94 Duffin Creek Water Pollution Control Plant - Chlorine	Construction	-	-	-	-	-	14,640	14,640
Contact Tank Expansion	Total	-	-	-	340	500	14,640	15,480
	Pre-Construction	-	1,400	3,000	-	-	-	4,400
<ul> <li>Proposed Pickering Parkway Sanitary Sewage Pumping</li> <li>Station and forcemain, Pickering</li> </ul>	Construction	-	-	-	-	13,500	-	13,500
Station and forcemain, Pickering	Total	-	1,400	3,000	-	13,500	-	17,900
	Pre-Construction	-	-	-	-	-	1,749	1,749
96 Proposed Squires Beach Sanitary Sewage Pumping Station, Pickering	Construction	-	-	-	-	-	-	-
Station, Pickening	Total	-	-	-	-	-	1,749	1,749
	Pre-Construction	-	-	-	-	-	-	-
97 Corbett Creek Water Pollution Control Plant - works to rectify existing deficiencies	Construction	-	7,300	-	-	-	-	7,300
recury existing denciencies	Total	-	7,300	-	-	-	-	7,300
	Pre-Construction	-	-	10,000	-	-	-	10,000
98 Expansion of Corbett Creek Water Pollution Control Plant from 84 MLD to 109 MLD	Construction	-	-	-	-	-	174,000	174,000
	Total	-	-	10,000	-	-	174,000	184,000
Brooklin Sanitary Diversion Strategy - Proposed	<b>Pre-Construction</b>	-	3,500	-	-	-	-	3,500
99 Thickson Rd. Sanitary Sewage Pumping Station and	Construction	-	-	-	29,800	-	-	29,800
forcemain, Whitby	Total	-	3,500	-	29,800	-	-	33,300
Harmony Creek Water Pollution Control Plant No. 1	Pre-Construction	-	-	-	-	-	-	-
100 demolition, Oshawa	Construction	-	-	2,900	-	-	-	2,900
	Total	-	-	2,900	-	-	-	2,900

			Forecast					
Durham 80	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Hammann Orach Canitan Causara Duranian Ctation	Pre-Construction	600	-	3,000	-	-	-	3,000
101 Harmony Creek Sanitary Sewage Pumping Station - expansion and forcemain twinning, Oshawa	Construction	-	-	-	-	-	45,100	45,100
expansion and forcemain twinning, Oshawa	Total	600	-	3,000	-	-	45,100	48,100
Expansion of the Conlin Dd. Soniton, Sowage Dumning	Pre-Construction	-	-	-	-	-	-	-
102 Expansion of the Conlin Rd. Sanitary Sewage Pumping Station and twinning of the forcemain, Oshawa	Construction	2,500	-	70,700	-	-	-	70,700
	Total	2,500	-	70,700	-	-	-	70,700
Drepaged Harbour Dd. South Capitany Courses Dumping	Pre-Construction	-	500	-	1,600	-	-	2,100
103 Proposed Harbour Rd. South Sanitary Sewage Pumping Station and forcemain, Oshawa	Construction	-	-	-	-	-	7,100	7,100
Station and Torocmain, Osnawa	Total	-	500	-	1,600	-	7,100	9,200
Circase St. Couth Conitory Courses Dumping Station and	Pre-Construction	-	-	-	-	-	-	-
104 Simcoe St. South Sanitary Sewage Pumping Station and forcemain replacement, Oshawa	Construction	-	4,700	-	-	-	-	4,700
lorcemain replacement, Osnawa	Total	-	4,700	-	-	-	-	4,700
Madawaaka, Caritary Cowara Duraning Station	Pre-Construction	-	-	-	-	1,000	1,200	2,200
105 Madawaska Sanitary Sewage Pumping Station - pumping station replacement, Oshawa	Construction	-	-	-	-	-	7,500	7,500
pumping station replacement, Oshawa	Total	-	-	-	-	1,000	8,700	9,700
	Pre-Construction	1,000	-	4,500	-	-	-	4,500
106 Expansion of Courtice Water Pollution Control Plant from 68 MLD to 136 MLD	Construction	-	-	-	-	-	148,900	148,900
	Total	1,000	-	4,500	-	-	148,900	153,400
	Pre-Construction	-	-	_	_	_	-	-
107 Proposed Baseline Rd. Sanitary Sewage Pumping Station and forcemain, Courtice	Construction	-	-	4,000	-	-	-	4,000
Station and forcemain, Countie	Total	-	-	4,000	-	-	-	4,000
	Pre-Construction	-	-	_	500	-	1,700	2,200
108 Proposed Northeast Sanitary Sewage Pumping Station	Construction	-	-	-	-	-	5,700	5,700
and forcemain, Bowmanville	Total	-	-	-	500	-	7,400	7,900
109 Newcastle Water Pollution Control Plant - Capacity Re- rating 4 MLD to 7 MLD	Pre-Construction	-	-	-	-	-	-	-
	Construction	3,630	-	-	-	-	-	-
	Total	3,630	-	-	-	-	-	-

					Foreca	st		
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Evenneign of Neurosette Weter Dellution Control Dign	Pre-Construction	-	-	1,100	-	1,300	-	2,400
110 Expansion of Newcastle Water Pollution Control Plan from 7 MLD to 16 MLD and outfall	Construction	-	-	-	-	-	-	-
	Total	-	-	1,100	-	1,300	-	2,400
Support Sopitary Sowage Dumping Station	Pre-Construction	-	120	-	-	-	-	120
111 Sunset Sanitary Sewage Pumping Station - decommissioning, Clarington	Construction	-	600	-	-	-	-	600
decommosioning, olarington	Total	-	720	-	-	-	-	720
Uxbridge Water Pollution Control Plant - Optimization	n Pre-Construction	-	-	-	-	-	-	-
112 Study, upgrades and rehabilitation works based on th	e Construction	-	4,600	-	-	-	-	4,600
condition assessment.	Total	-	4,600	-	-	-	-	4,600
Water St. Senitery Courses Dumping Station	Pre-Construction	-	-	-	-	-	-	-
113 Water St. Sanitary Sewage Pumping Station - Expansion/Replacement, Scugog	Construction	-	19,550	-	3,000	-	-	22,550
Expansion/Replacement, Scugog	Total	-	19,550	-	3,000	-	-	22,550
	Pre-Construction	-	1,200	-	-	-	-	1,200
114 Port Perry Industrial Area Sanitary Sewage Pumping Station, forcemain and sanitary sewer, Port Perry	Construction	-	-	-	-	14,200	-	14,200
Station, forcemain and samary sewer, i or i eny	Total	-	1,200	-	-	14,200	-	15,400
	Pre-Construction	2,000	_	-	-	-	-	-
115 Sunderland Water Pollution Control Plant - Lagoon System, Brock	Construction	-	-	11,000	-	-	-	11,000
System, block	Total	2,000	-	11,000	-	-	-	11,000
	Pre-Construction	1,200	-	-	-	-	-	-
116 River St. Sanitary Sewage Pumping Station expansio Brock	n, Construction	-	4,600	-	-	-	-	4,600
DIOCK	Total	1,200	4,600	-	-	-	-	4,600
Operation to a Martine Dellation Operator I Directory	Pre-Construction	2,000	-	-	-	-	-	-
Cannington Water Pollution Control Plant - Lagoon	Construction	-	-	11,500	-	-	-	11,500
' System, Brock	Total	2,000	-	11,500	-	-	-	11,500
	Pre-Construction	1,000	-	-	-	-	-	-
118 Laidlaw St. Sanitary Sewage Pumping Station expansion, Brock	Construction	-	5,200	-	-	-	-	5,200
CAPAIISION, DIOCK	Total	1,000	5,200	-	-	-	-	5,200
	Petar	.,	0,200					0,200

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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	
Brock         Construction         -         -         -         -         39,000         39,000         39,000         49,000         42,000 <t< td=""><td></td><td>Lake Simere Water Ballytian Control Diant - evanation</td><td>Pre-Construction</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1,000</td><td>2,000</td><td>3,000</td></t<>		Lake Simere Water Ballytian Control Diant - evanation	Pre-Construction	-	-	-	-	1,000	2,000	3,000
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	119	•	Construction	-	-	-	-	-	39,000	39,000
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		DIOCK	Total	-	-	-	-	1,000	41,000	42,000
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Herbour St. Sonitory Sources Dumping Station	Pre-Construction	-	-	-	-	1,000	6,500	7,500
$ \frac{1}{121} \frac{1}{121} \frac{1}{122} 1$	120		Construction	-	-	-	-	-	-	-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			Total	-	-	-	-	1,000	6,500	7,500
121         Pumping Station and sanitary sewer, Brock         Construction         -         -         5,000         -         -         -         5,000         -         -         5,000         -         -         -         5,000         -         -         6,000           122         Septage receiving stations, various stations         Pre-Construction         -         -         -         -         -         -         6,800         -         -         6,800         -         -         6,800         -         -         6,800         -         -         6,800         -         -         6,800         -         -         -         -         -         -         -         1,840         -         -         1,840         -		Requestes Employment Lands Area B Conitany Courses	<b>Pre-Construction</b>	-	1,000	-	-	-	-	1,000
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	121		Construction	-	-	-	5,800	-	-	5,800
$ \frac{122}{128} 1$		r unping station and samary sewer, brock	Total	-	1,000	-	5,800	-	-	6,800
$\frac{1}{123} \frac{1}{123} \frac{1}{133} \frac{1}$			Pre-Construction	-	-	-	-	-	-	-
$\frac{123}{123} \frac{\text{Water Pollution Control Plant - Asset Management Remediation and Rehabilitation works}}{\frac{123}{123}} \frac{\text{Pre-Construction}}{124} \frac{\text{Pre-Construction}}{124} \frac{\text{Pre-Construction}}{125} \frac{124}{125} \frac{\text{Pre-Construction}}{125}} \frac{124}{125} \frac{\text{Pre-Construction}}{125} \frac{124}{125} \frac{\text{Pre-Construction}}{125}} \frac{125}{125} 125$	122	122 Septage receiving stations, various stations	Construction	-	1,840	-	-	-	-	1,840
$\frac{123}{123} \frac{\text{Water Pollution Control Plant - Asset Management}}{\text{Remediation and Rehabilitation works}} + \frac{123}{123} \frac{\text{Construction}}{124} + \frac{123}{125} \frac{\text{Construction}}{124} + \frac{123}{125} \frac{\text{Construction}}{125} + \frac{123}{125} + $			Total	-	1,840	-	-	-	-	1,840
123       Remediation and Rehabilitation works $120$ $120$ $8,000$ $45,000$ $71,000$ 124       New Concrete Floor in Sign Shed - Ajax Depot       Pre-Construction       -		Weter Ballytian Control Blant Accest Management	Pre-Construction	-	-	-	-	-	-	-
Total         -         5,000         8,000         5,000         8,000         45,000         71,000           124         New Concrete Floor in Sign Shed - Ajax Depot         Pre-Construction         -	123	Remediation and Rehabilitation works	Construction	-	5,000	8,000	5,000	8,000	45,000	71,000
124New Concrete Floor in Sign Shed - Ajax DepotConstruction-2522Total-2522125Depot Rationalization - Ajax Depot ExpansionPre-Construction1,667 <td></td> <td></td> <td>Total</td> <td>-</td> <td>5,000</td> <td>8,000</td> <td>5,000</td> <td>8,000</td> <td>45,000</td> <td>71,000</td>			Total	-	5,000	8,000	5,000	8,000	45,000	71,000
Total       -       25       -       -       -       -       22         125 Depot Rationalization - Ajax Depot Expansion       Pre-Construction       1,667       - </td <td></td> <td></td> <td>Pre-Construction</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>			Pre-Construction	-	-	-	-	-	-	-
125 Depot Rationalization - Ajax Depot Expansion       Pre-Construction       1,667       -       11,667       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -       -       -       -       11,667       -       -       -       -       11,667       -       -       -       -       11,667       -       -       -       -       -       11,667       - <td>124</td> <td>New Concrete Floor in Sign Shed - Ajax Depot</td> <td>Construction</td> <td>-</td> <td>25</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>25</td>	124	New Concrete Floor in Sign Shed - Ajax Depot	Construction	-	25	-	-	-	-	25
125 Depot Rationalization - Ajax Depot Expansion       Construction       -       11,667       -       -       -       11,667         Total       1,667       11,667       -       -       -       11,667       -       -       11,667       -       -       11,667       -       -       11,667       -       -       11,667       -       -       11,667       -       -       11,667       -       -       11,667       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -       -       -       11,667       -			Total	-	25	-	-	-	-	25
Total       1,667       11,667       -       -       -       11,667         Pre-Construction       82       -       -       -       -       11,667			Pre-Construction	1,667	-	-	-	_	-	-
Pre-Construction 82	125	Depot Rationalization - Ajax Depot Expansion	Construction	-	11,667	-	-	-	-	11,667
			Total	1,667	11,667	-	-	-	-	11,667
126 Building J Roof Replacement - Corbett Creek WPCP Construction - 153 153			Pre-Construction	82	-	-	-	_	-	-
	126	Building J Roof Replacement - Corbett Creek WPCP	Construction	-	153	-	-	-	-	153
Total 82 153 15			Total	82	153	-	-	-	-	153
Pre-Construction			Pre-Construction	-	-	-	-	-	-	-
127 Digester Cleanout - Various Locations         Construction         -         650         250         -         -         90	127	Digester Cleanout - Various Locations	Construction	-	650	250	-	-	-	900
Total - 650 250 90			Total	-	650	250	-	-	-	900

Durham 00					Foreca	ast		
Durham 80	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Access Lodder Deneir/Denlessment Dreiset Mariaus	Pre-Construction	-	-	-	-	-	-	-
128 Access Ladder Repair/Replacement Project - Various Locations	Construction	641	-	-	-	-	-	-
	Total	641	-	-	-	-	-	-
Replacement Fire System - Vesda - Duffin Creek	Pre-Construction	-	-	-	-	-	-	-
129 WPCP	Construction	800	-	-	-	-	-	-
	Total	800	-	-	-	-	-	-
Now Eurpiture in Office and Lab. Expansion	Pre-Construction	-	-	-	-	-	-	-
130 New Furniture in Office and Lab - Expansion - Environmental Lab	Construction	22	-	-	-	-	-	-
	Total	22	-	-	-	-	-	-
131 Re-pave Existing South Driveway - Harmony Creek	Pre-Construction	-	40	-	-	-	-	40
	Construction	-	-	143	-	-	-	143
	Total	-	40	143	-	-	-	183
	<b>Pre-Construction</b>	-	40	-	-	-	-	40
132 Install Electric Gates - Lake Simcoe WPCP	Construction	-	-	110	-	-	-	110
	Total	-	40	110	-	-	-	150
	<b>Pre-Construction</b>	-	-	-	-	-	-	-
133 Construction of Mezzanine in Fleet Bay 1 - Orono Depot	Construction	-	67	-	-	-	-	67
	Total	-	67	-	-	-	-	67
Thermal Olace Danals for Dalling Daars and Daar	Pre-Construction	-	-	-	-	-	-	-
134 Thermal Glass Panels for Rollup Doors and Door operators - Orono Depot	Construction	-	66	-	-	-	-	66
	Total	-	66	-	-	-	-	66
	Pre-Construction	-	-	-	-	-	-	-
135 Paving of Rear Yard and Site Repairs - Orono Depot	Construction	-	-	-	-	-	121	121
	Total	-	-	-	-	-	121	121
Deef Depleasement on Mahiele Otana na Davis - Orang	Pre-Construction	27	-	-	-	-	-	-
136 Roof Replacement on Vehicle Storage Bays - Orono Depot	Construction	-	172	-	-	-	-	172
	Total	27	172	-	-	-	-	172

Durham 00			Forecast						
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
	Pre-Construction	-	-	-	-	-	73	73	
137 20 Bay Cold Vehicle Storage - Orono Depot Expansion	Construction	-	-	-	-	-	1,192	1,192	
	Total	-	-	-	-	-	1,265	1,265	
Salt and Dring Starage Building Orang Danat	Pre-Construction	-	-	-	-	-	116	116	
138 Salt and Brine Storage Building - Orono Depot Expansion	Construction	-	-	-	-	-	1,050	1,050	
Expansion	Total	-	-	-	-	-	1,166	1,166	
	Pre-Construction	-	-	-	-	-	-	-	
139 Replacement of Fire System - Oshawa/Whitby Depot	Construction	68	-	-	-	-	-	-	
	Total	68	-	-	-	-	-	-	
	Pre-Construction	12,667	1,667	-	-	-	-	1,667	
141 Depot Rationalization - New Oshawa/Whitby Depot	Construction	-	-	55,000	-	-	-	55,000	
	Total	12,667	1,667	55,000	-	-	-	56,667	
Driver verse Deple comparts Diants Control - Zong O	Pre-Construction	-	-	-	-	-	-	-	
142 Driveway Replacement - Plants Central - Zone 2 Reservoir	Construction	-	50	-	-	-	-	50	
I Lesei VOII	Total	-	50	-	-	-	-	50	
	Pre-Construction	7	-	_	-	_	_	-	
143 Repairs and Epoxy Coat Fleet Bay Concrete Floors & Repairs to Floor Drains in Fleet Bays - Scugog Depot	Construction	-	28	-	-	-	-	28	
Repairs to Floor Drains in Fleet Days - Scugog Depot	Total	7	28	_	-	-	_	28	
Dealers Estation Association Medical association of	Pre-Construction	-	-	10	-	-	-	10	
144 Replace Existing Asphalt in Various Location - Scugog	Construction	-	-	-	123	-	-	123	
Depot	Total	-	-	10	123	-	-	133	
	Pre-Construction	-	-	-	93	-	-	93	
145 Additional Office Space - Scugog Depot	Construction	-	-	-	-	406	-	406	
	Total	-	-	-	93	406	-	499	

Durham 9			Forecast							
Durham 800	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
New 40 Dev Cald Makiela Otanana - Course a Dan at	Pre-Construction	-	-	-	73	-	-	73		
146 New 16 Bay Cold Vehicle Storage - Scugog Depot Expansion	Construction	-	-	-	-	992	-	992		
	Total	-	-	-	73	992	-	1,065		
New Self and Prine Storage Facility - Source Depat	Pre-Construction	-	-	-	100	-	-	100		
147 New Salt and Brine Storage Facility - Scugog Depot Expansion	Construction	-	-	-	-	1,067	-	1,067		
	Total	-	-	-	100	1,067	-	1,167		
Widening of Evisting Concerv Entrence - Cunderland	Pre-Construction	8	-	-	-	-	-	-		
148 Widening of Existing Canopy Entrance - Sunderland	Construction	-	42	-	-	-	-	42		
Depot	Total	8	42	-	-	-	-	42		
Install Devine tex Ferrer Dumning Stations Control	Pre-Construction	-	-	-	-	-	-	-		
149 Cochrane St SPS	Construction	50	-	-	-	-	-	-		
	Total	50	-	-	-	-	-	-		
	Pre-Construction	-	-	-	-	-	-	-		
150 Renovation & Optimization - 101 Consumers	Construction	442	-	-	-	-	-	-		
	Total	442	-	-	-	-	-	-		
	Pre-Construction	-	-	-	-	-	-	-		
151 Access Ladder Repair/Replacement Project - Duffin Creek WPCP	Construction	582	-	-	-	-	-	-		
Cleek WI Cl	Total	582	-	-	-	-	-	-		
	Pre-Construction	1,333	1,333	-	-	-	-	1,333		
152 Depot Rationalization - New Sunderland Depot	Construction	-	-	14,000	-	-	-	14,000		
	Total	1,333	1,333	14,000	-	-	-	15,333		
Buildings and Structures Subtotal		32,325	77,110	199,213	46,429	42,965	502,641	868,358		
Machinery & Equipment										
152 Central Duffin Creek Metering Building at Valleyfarm	Pre-Construction	100	-	-	-	-	-	-		
	Construction	-	560	-	-	-	-	560		
Road and Finch Avenue meter replacement, Pickering	Total	100	560	-	-	-	-	560		

					Foreca	st		
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Duffin Creek Water Pollution Control Plant - Digester	Pre-Construction	-	-	-	-	-	-	-
154 mixing improvements and Motor Control Centre	Construction	21,450	23,850	-	-	-	-	23,850
Replacement, Pickering	Total	21,450	23,850	-	-	-	-	23,850
Duffin Crock Water Ballution Control Blant	Pre-Construction	-	-	-	-	-	-	-
155 Duffin Creek Water Pollution Control Plant - Replacement of Reactor No. 1 & 2, Pickering	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
Deffer One Is Marker Delle time One test Direct. Demos diel	Pre-Construction	-	-	-	-	-	-	-
Duffin Creek Water Pollution Control Plant - Remedial	Construction	27,500	-	-	-	-	-	-
156 works and improvements in various locations throughout the plant	Total	27,500	-	-	-	-	-	-
	Pre-Construction	1,000	-	-	-	-	-	-
157 Duffin Creek Water Pollution Control Plant - Ammonia- based aeration control (ABAC) for Stage 1, 2 and 3	Construction	-	-	5,000	-	-	-	5,000
based aeration control (ADAC) for Stage 1, 2 and 5	Total	1,000	-	5,000	-	-	-	5,000
	Pre-Construction	-	-	-	-	-	3,000	3,000
Duffin Creek Water Pollution Control Plant - Ultra Fine	Construction	-	-	-	-	-	20,000	20,000
Bubble Diffusers conversion (full plant)	Total	-	-	-	-	-	23,000	23,000
	Pre-Construction	-	-	-	-	5,000	-	5,000
159 Duffin Creek Water Pollution Control Plant - Biogas Purification to Renewable Natural Gas (RNG)	Construction	-	-	-	-	-	18,400	18,400
Furnication to Renewable Natural Gas (RNG)	Total	-	-	-	-	5,000	18,400	23,400
	Pre-Construction	-	-	-	-	-	_	-
160 Duffin Creek Water Pollution Control Plant - Condition Assessment and Asset Plan updating	Construction	-	200	300	-	-	500	1,000
Assessment and Asset Flan updaling	Total	-	200	300	-	-	500	1,000
Duffin One du Mater Dellution Orated Direct. Au d	Pre-Construction	-	100	100	100	100	4,300	4,700
161 Duffin Creek Water Pollution Control Plant - Asset Management Remediation and rehabilitation works –	Construction	-	900	900	900	900	20,700	24,300
	Total	-	1,000	1,000	1,000	1,000	25,000	29,000

	Durham 9					Foreca	st		
	Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Liverpool Road Sanitary Sewage Pumping Station -	Pre-Construction	-	-	-	-	-	-	-
162	communication, mechanical and process upgrades,	Construction	-	3,700	-	-	-	-	3,700
	Pickering	Total	-	3,700	-	-	-	-	3,700
	Corruthere Sepitary Sewage Dumping Station Standby	Pre-Construction	-	-	250	-	-	-	250
163	Power Upgrades	Construction	-	-	-	-	750	-	750
		Total	-	-	250	-	750	-	1,000
	Michael Blvd. Sanitary Sewerage Pumping Station -	Pre-Construction	200	-	-	-	-	-	-
164	replacement of the Motor Control Centre (MCC) and	Construction	-	-	-	2,000	-	-	2,000
	pump, Whitby	Total	200	-	-	2,000	-	-	2,000
	Hanover Senitary Sewage Dumping Station the	Pre-Construction	-	-	-	-	-	-	-
165	165 Hanover Sanitary Sewage Pumping Station - the replacement of pumps and forcemain, Whitby	Construction	100	-	-	-	-	-	-
	replacement of pumps and forcemain, whitey	Total	100	-	-	-	-	-	-
	Breakwater Saniitary Sewage Pumping Station - station	Pre-Construction	-	-	-	-	-	-	-
166	modifications, Whitby	Construction	-	-	960	-	-	-	960
		Total	-	-	960	-	-	-	960
	Cimera St. Coniton / Courses Dumning Station	Pre-Construction	250	-	-	-	-	-	-
167	Simcoe St. Sanitary Sewerage Pumping Station - Chemical Pump addition, Oshawa	Construction	-	-	575	-	-	-	575
	onemical rump addition, osnawa	Total	250	-	575	-	-	-	575
	Madawaaka Sanitany Sawaraga Dumning Station	Pre-Construction	-	-	-	-	-	-	-
168	Madawaska Sanitary Sewerage Pumping Station - piping upgrades and flow meter installation, Oshawa	Construction	-	-	460	-	-	-	460
	piping upgrades and now meter instantion, osnawa	Total	-	-	460	-	-	-	460
	Courtise Water Dollution Control Diant remodiation	Pre-Construction	-	-	-	-	-	-	-
169	Courtice Water Pollution Control Plant - remediation	Construction	-	2,900	-	-	-	-	2,900
	work and performance improvements, Courtice	Total	-	2,900	-	-	-	-	2,900
	Counting Water Dellution Control Director 1	Pre-Construction	-	-	750	1,600	-	-	2,350
170	170 Courtice Water Pollution Control Plant - Digester 1	Construction	-	-	-	-	-	4,000	4,000
	Refurbishment, Courtice	Total	-	-	750	1,600	-	4,000	6,350

Durham     Second       Expenditure     2023 Proposed	
Budget         Category         Budget         2024         2025         2026         2027         2028	8-2032 Forecast Total
Pre-Construction	
171       Port Darlington Water Pollution Control Plant - Major         Maintenance replacement work, Bowmanville       Construction	- 7,100
Total - 7,100	- 7,100
Pre-Construction	
172 Port Darlington Water Pollution Control Plant - work to recitify deficiencies, Bowmanville Construction - 1,400	- 1,400
Total - 1,400	- 1,400
Lake Simcoe Water Pollution Control Plant - Diffused Pre-Construction	
173 Air System replacement and associated system Construction 7,050	
upgrades Total 7,050	
Pre-Construction	
174 Replacement of Clarifier mechanisms Construction Construction 100	
Total 100	
Pre-Construction - 750	- 750
175 filter replacement Construction Control Plant - tertiary Construction 2,000	- 2,000
Total - 750 2,000	- 2,750
Pre-Construction 500	
Lake Simcoe Water Pollution Control Plant and 176 associated sanitary sewerage pumping stations - PLC	- 6,000
and SCADA system upgrades Total 500 - 6,000	- 6,000
Pre-Construction	
Laidlaw, Cedar and Harbour St. Sanitary Sewage Construction 4,000 -	- 4,000
177 Pumping Station - Major Maintenance and replacement work       Total       -       -       4,000       -	- 4,000
Pre-Construction	
<sup>178</sup> Sanitary Sewerage Pumping Station - piping upgrades and flow meter installation, at various locations	- 1,000
Total - 500 500 -	- 1,000

Durham 🕄	Essa an ditta an a			Forecast						
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
Emergency Generator Fuel Tank Compliance upgrades	Pre-Construction	-	-	-	-	-	-	-		
179 Phase 3 and 5	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 🕄					Forecas	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
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 🕄					Forecas	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
206 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

Appendix D: 2023-2032 Sanitary Sewerage System Capita Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix C for final		ed in 2023.					
Durham 🔀 Expenditu				Foreca	st		
Durnam BudgetSExpenditu Category		2024	2025	2026	2027	2028-2032	Forecast Total
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 🕄					Forec	ast		
Budget S	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
234 Reactor #4 ID Fan Replacement Parts - Duffin Creek WPCP		-	-	-	-	-	150	150
235 Reactor 1 and/or 2 Major Maintenance - Duffin Creek WPCP		-	100	100	-	-	-	200
236 Replace flowmeters and transmitters at Reactor 3 - Duffin Creek WPCP		-	-	-	-	-	150	150
237 Replace flowmeters and transmitters at Reactor 4 - Duffin Creek WPCP		-	-	-	-	-	150	150
<ul> <li>Replace chlorine contact chamber 1/2 level sensors at effluent station 1. Replace chlorine injector, level</li> <li>sensors, pH/Temp AIT and TIT, and ORP transmitterat effluent station 2. Replace ORP Analyzer AIT-0113 at chlorine chamber 5-6 - Duffin Creek WPCP</li> </ul>		-	105	-	-	-	-	105
<ul> <li>Replace electrical substation TS-102 power supply to H2</li> <li>sensor, Replace LITs for diesel generator fuel tanks.</li> <li>Replace flowmeters of diesel transfer pumps - Duffin</li> <li>Creek WPCP</li> </ul>		-	-	-	-	-	190	190
240 Replace Fluke Processmeters and A Chamber LIT-0101 at Admin Building - Duffin Creek WPCP		-	23	-	-	-	-	23
Replace indicators (PIT, TIT, FIT) and humidification 241 system at the Stage 3 Headwork and Biofilter Areas - Duffin Creek WPCP		-	75	80	-	-	-	155
Replace LITs of primary scum tanks and raw sludge 242 density trainsmitters DITs at Stage 3 Primary Gallery - Duffin Creek WPCP		-	-	125	-	-	125	250

Appendix D: 2023-2032 Sanitary Sewerage Syst Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See A			ed in 2023.					
					Forecas	st		
Durham Budget &	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Replace LITs of Storage Tank 2,4,3 at Stage 3 Disinfection - Duffin Creek WPCP		-	-	-	-	-	45	45
Replace methane sensors, H2S sensors, PITs, TITs, 244 LITs, and FITs at Stage 2 Headworks - Duffin Creek WPCP		-	-	-	150	150	-	300
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
Replace transmitters (PITs, TITs, LITs, and AITs), 247 process and safety valves at the South Incineration Common Area - Duffin Creek WPCP		-	75	75	-	-	-	150
Replace transmitters (PITs, TITs, LITs, Vibration 248 Sensor, and AITs) at the North Incineration Common Area - Duffin Creek WPCP		-	100	-	100	-	100	300
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 🕄					Forecas	st		
Budget S	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
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

Appendix D: 2023-2032 Sanitary Sewerage System Capita Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix C for fina		ed in 2023.					
Durham 🕄 Expendite				Forecas	st		
Durnam BudgetSExpenditu Categor		2024	2025	2026	2027	2028-2032	Forecast Total
265 Biosafety Cabinet - Environmental Lab	-	-	-	-	-	25	25
266 BOD Incubators (Inorganic) - Environmental Lab	-	-	-	40	-	-	40
267 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 🕄					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
279 Liquid Chromatograph Mass Spectrometer - Environmental Lab		-	-	-	-	-	400	400
280 Media Preparing Equipment (Microbiology) - 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

Durham 🕄					Foreca	st		
Budget 8	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 🕄					Forecas	st		
	Expenditure Category	2023 Proposed Budget	2024	2025	2026	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

Durham 😵					Foreca	st				
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
324 Integrated Control Technology - Security Project - Duffin Creek WPCP		25	_	-	-	-	-	-		
Machinery and Equipment Subtotal		61,829	70,076	43,577	61,263	80,977	213,243	469,136		
Information Technology										
325 SCADA System Master Plan for the sanitary sewage pumping stations and implementation requirements		500	-	1,300	1,500	-	-	2,800		
326 Standard Laptop		1	2	-	-	-	-	2		
327 Power Laptop		13	22	2	6	6	7	43		
328 Scanner and Wide Format Black & White Printer - Construction		-	-	-	22	-	-	22		
329 UPS/Power PDU - Various Locations		-	-	192	-	-	384	576		
330 GIS Hardware (Monitors, backup devices and other) - Data System Management		5	-	-	-	-	-	-		
331 Tablet		6	-	-	-	-	-	-		
332 Laptops - Duffin Creek WPCP		-	10	-	-	5	15	30		
333 SCADA Programming Software Upgrade (ifix) - Duffin Creek WPCP		50	-	-	-	250	250	500		
334 SCADA Workstations (Desktops) - Duffin Creek WPCP		10	10	10	10	10	50	90		
335 Barcode Printers - Environmental Lab		8	_	_	-	-	-	-		
336 LIMS Backup Server - Environmental Lab		-	40	-	-	-	-	40		

Durham 🕄					Forecas	t		
	Expenditure 2023 Prop Category Budg		2024	2025	2026	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
Information 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 🕄					Forecas	t		
Budget 82	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
Vehicles Subtotal		395	509	28	153	56	217	963

Durham 🕄		Forecast								
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
Furniture and Fixtures										
360 A/V Equipment and Technology Upgrades - Various Locations		10	10	10	10	10	20	60		
361 Parts Cabinets - Ajax Depot		-	16	-	-	-	-	16		
362 Office Chairs - Financial Services		-	1	1	1	1	4	8		
<ul> <li>Heavy Duty Steel Racking for Materials Storage Building</li> <li>Orono Depot</li> </ul>		-	65	-	-	-	-	65		
364 Office Furniture - Various Locations		-	1	-	1	-	-	2		
365 Parts Cabinets - Oshawa/Whitby Depot		-	109	-	-	-	-	109		
Furniture and Fixtures Subtotal		10	202	11	12	11	24	260		
Allowances & Other Provisions										
<ul> <li>Regional Sewage Master planning study for the</li> <li>Regional Official Plan Review</li> </ul>		600	-	-	-	-	800	800		
367 Biosolids Master Plan		500	500	-	-	-	-	500		
368 York Durham Sanitary Sewerage Master Plan		500	500	-	-	-	-	500		
369 Inflow/infiltration monitoring, studies and required remedial works in various locations		-	500	500	500	500	2,500	4,500		
370 Emergency Planning Updating Requirements		-	100	-	-	-	-	100		
371 Asset Condition Assessments - Reports for the Vertical Assets		300	-	300	300	300	1,500	2,400		

Durham 🕄			Forecast							
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
Asset Condition Assessment/ investigation on trunk sanitary sewer/forcemain system		-	200	200	200	200	1,000	1,80		
373 Climate Change Strategy Allowance		-	300	-	-	-	200	50		
Allowance for Vulnerability Assessments for Water Pollution Control Plants		-	350	-	350	-	-	70		
375 Allowance for acquisition of easements		100	100	100	100	100	500	90		
376 Allowance for engineering studies		150	150	150	150	150	750	1,35		
<ul><li>Phosphorus Reduction Study for Lake Simcoe Water</li><li>Pollution Control Plants.</li></ul>		-	-	-	-	250	-	25		
378 Preliminary engineering		100	100	100	100	100	500	90		
379 Allowance for sundry extensions as per Council policy		15	15	15	15	15	75	13		
380 Allowance for unknown requirements		100	100	100	100	100	500	90		
Allowance for land severance review and drawing requirements		100	100	100	100	100	500	90		
Allowance for Regional share for works in conjunction with residential subdivision development		2,000	2,000	2,000	2,000	2,000	10,000	18,00		
Allowance for Regional share for works in conjunction with non-residential development		500	500	500	500	500	2,500	4,50		
384 Allowance for intensification		350	350	350	350	350	1,750	3,15		
Ilowances & Other Provisions Subtotal		5,315	5,865	4,415	4,765	4,665	23,075	42,78		

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 🕄		2023 Proposed Budget	Forecast							
Durham Budget	Expenditure Category		2024	2025	2026	2027	2028-2032	Forecast Total		
Sanitary Sewerage System Subtotal		147,452	343,922	302,022	249,876	211,886	1,155,490	2,263,196		
<b>Total</b> Sanitary Sewerage System		147,452	343,922	302,022	249,876	211,886	1,155,490	2,263,196		

\* Rows and columns may not add due to rounding

\*\* Pre-construction capital financing includes expenditures for land purchases, utility relocates, preliminary studies, design, etc.

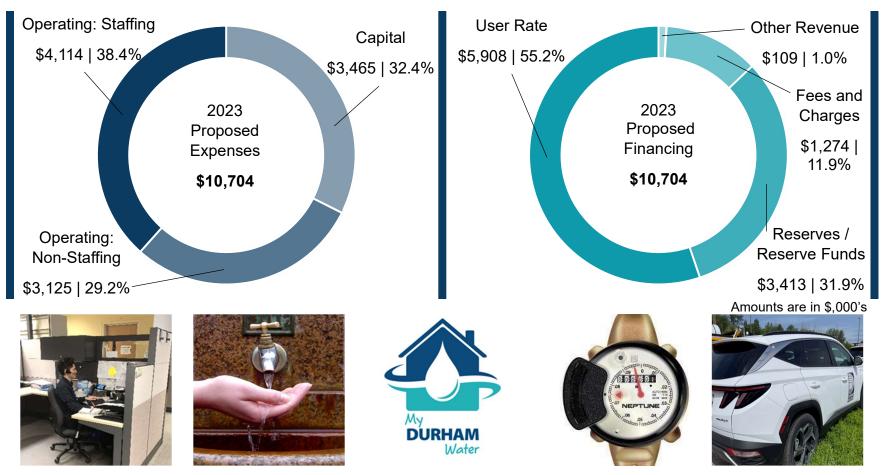
\*\*\* Projects with regularly recurring expenditures include allowances, machinery and equipment, information technology, vehicles and furniture and fixtures, etc. do not include separate pre-construction and construction capital financing

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

	2023	2024	2025	2026	2027	2028 - 2032	Grand Total
DC Shortfall							
Residential DC Shortfall	-	97,362	59,557	69,298	12,000	146,982	385,199
Commercial DC Shortfall	-	-	-	-	-	14,442	14,442
Institutional DC Shortfall	169	622	461	454	245	1,637	3,588
Industrial DC Shortfall	10,215	16,002	26,555	29,249	9,385	109,392	200,798
Total DC Shortfall	10,384	113,986	86,573	99,001	21,630	272,453	604,027
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	10,384	113,986	86,573	99,001	21,630	272,453	604,027



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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**Major Programs and Services** 

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Appendix B: 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

Provides the gross expenditures and revenues - including both	operating and capital - and the resulting ne					
Durham 800	2022 Estimated Actuals	2022 Approved Budget	2023 Proposed Budget	Variance		
Budget R				\$	%	
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 requirement  Veriance													
Durham 82	2022 Estimated Actuals	2022 Approved Budget	2023 Proposed Budget	Varian \$	ce %								
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%								
<b>User Rate Requirement</b> Utility Finance	5,675	5,750	5,908	158	2.79								

## 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

🔊 Durham 🛛 🕄	2022		2022 A	pproved B	udgets			2023 P	roposed B	udgets		Varia	nce
Durham 800 800 800 800 800 800 800 800 800 80	Estimated Actuals	Operating Expenses	Gross Capital	Subsidy Funding	Other Funding	Approved Budget	Operating Expenses	Gross Capital	Subsidy 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	
<ul> <li>Headquarters Shared Cost - Utility</li> <li>Finance Portion</li> </ul>	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	က	2022	2023	Forecast							
Budget	2023	Approved Budget	Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
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		
<b>Total Capital</b> Utility Finance		3,422	3,465	3,430	16	20	96	358	3,920		

# Details of Budget Changes

Strategic Investments: Utility Finance	<b>2023 Impact</b> (\$ 000's)
New position – Senior Accounting Clerk (1.0 FTE) effective July 1, 2023. Additional details are provided in the Staffing Details section	(\$ 000 S) 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 frequency devices to enable meters to be read without physical contact with the customer's premise. Upgrade will improve customer service with more frequent meter reading and up-to-date data for billing purposes. This project is being delivered in collaboration with the Works Department and the second year 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
Strategic Investments: Utility Finance Subtotal Base Adjustments: Utility Finance	90 2023 Impact (\$ 000's)
	2023 Impact
Base Adjustments: Utility Finance	<b>2023 Impact</b> (\$ 000's)
Base Adjustments: Utility Finance Economic increases	<b>2023 Impact</b> (\$ 000's) 52

## **Details of Budget Changes** *Continued*

Base Adjustments: Utility Finance Subtotal

### Net Changes: Utility Finance

Staffing Details		
Utility Finance	Full Time Eq	uivalents (FTE's)
2022 Approved Complement		<u>36.5</u>
Proposed New Positions		
Senior Accounting Clerk to provide additional support for customer high billing investigations	1.0	
Total Proposed New Positions		<u>37.5</u>
Utility Finance Subtotal		37.5

Total Complement: Utility Finance	
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2023 Proposed Business Plans and Budgets

37.5

68

158

## 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 A: 2023 Utility Finance Provides financing details for capital projects propo				nsive 2023 capi	ital budget and 2	2024-2032 forecast										
Durham Budget	2023	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional	Proposed Fina Commercial DCs	n <b>cing</b> Residential DCs	Subsidy /Grant	Debenture	User Rate	2023 Proposed Budget	Approved Funding Prior to 2023	Proposed 2024-2032	Total Project to 2032
Utility Finance																
Information Technology Laptop Computer Laptop Computer Neptune360 Tablets Neptune Remote Readers Information Technology Subtotal Machinery & Equipment Water Meter Replacements/Upgrades		1 11 5 5	New Replacement New New	- - - -	- - - - - 3,333	- - - -	-	- - - -	-	-		2 20 20 10 <b>52</b>	2 20 10 <b>52</b> 3,333			2 20 10 <b>52</b> 10,000
Machinery & Equipment Subtotal				-	3,333		-	-	-	-	-	-	3,333	3,333	3,334	10,000
Vehicles Meter Reading Electric Vehicle Vehicles Subtotal		1	Replacement	-	80 <b>80</b>		-	-	-	-	-	<u> </u>	80 <b>80</b>		<u> </u>	<u> </u>
Utility Finance Subtotal				-	3,413	-	-	-	-	-	-	52	3,465	3,333	3,334	10,132
<b>Total</b> Utility Finance				-	3,413	-	-	-	-	-	-	52	3,465	3,333	3,334	10,132

Appendix B: 2023-2032 Utility Finance Capit Provides a listing for all projects within the 2023 budget and nine-year capital f	• •		ojects proposed in 2023							
Durham 🕄			Forecast							
Durham Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
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		
<b>Total</b> Utility Finance		3,465	3,430	16	20	96	358	3,920		

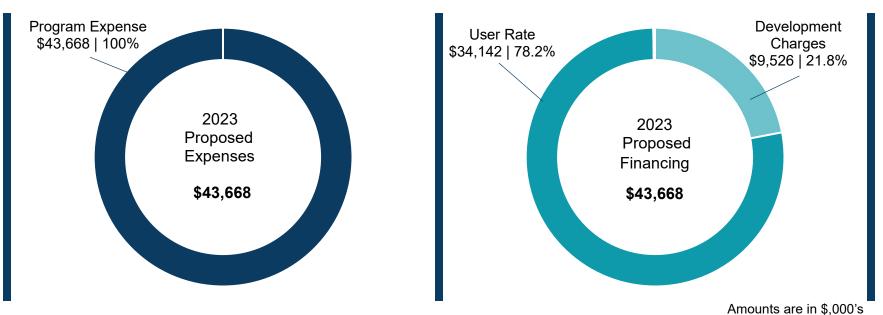
# **CORPORATE ITEMS** WATER SUPPLY AND SANITARY SEWERAGE

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

Durham

**Budget** 

DURHAM





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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 Ac Provides the gross expenditures and revenues - including both op		t user rate requirement				
Durham Budget 802	2022 Estimated Actuals	2022 Approved Budget	2023 Proposed Budget	Variance		
Budget <b>R</b>				\$	%	
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%	
<b>User Rate Requirement</b> Corporate Items - Water Supply and Sanitary Sewerage	34,017	34,186	34,142	(44)	(0.1%	

Financial Details: Summary by Pro Provides the total operating expense, capital expense, subsidy, oth		-	equirement for	each major proo	gram and servic	e							
Durham Budget	2022 Estimated Actuals	Operating Expenses	<b>2022 A</b> Gross Capital	<b>Subsidy</b> Funding	<b>udgets</b> Other Funding	Approved Budget	Operating Expenses	2023 P Gross Capital	roposed B Subsidy Funding	udgets Other Funding	Proposed Budget	Varia \$	nce %
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%)
<b>User Rate Requirement</b> 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 Changes** 2023 Impact **Base Adjustments:** Corporate Items – Water Supply and Sanitary Sewerage (\$ 000's) Economic increases 61 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 (827)incinerators for the Region's water pollution control plants **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.