



Ottawa

Draft

BUDGET

2024

Advancing Ottawa: A plan for a resilient, affordable and connected city

Environment and Climate Change Committee –Rate supported

Tabled – November 8, 2023

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Infrastructure and Water Services Department 2024 Service Area Summary - Drinking Water Services

Drinking Water Services is responsible for the production and distribution of safe, high-quality drinking water through the operation and maintenance of the Ottawa's water supply. The central system includes the Britannia and Lemieux Island Water Purification Plants and treated water from both plants is pumped into a vast water distribution network that includes 16 pumping stations, 5 reservoirs, 4 elevated tanks, and 3,800 km of watermain pipes. In addition, the City operates six municipal well systems: Carp Drinking Water System, Kings Park (Richmond) Drinking Water System, Munster Hamlet Drinking Water System, Richmond West (Richmond) Drinking Water System, Shadow Ridge (Greely) Drinking Water System and Vars Drinking Water System.

Programs/Services Offered

- Day to day operations and maintenance for treatment plants, pump stations, reservoirs, tanks, and well systems
- Operation of a dedicated computer-control (SCADA) system to monitor all water operations 24/7
- Compliance with all drinking water regulations, inspections, audits, and operator certification requirements
- Distribution system operation, inspection and maintenance (pipe disinfection, system isolation, connections, repairs) for approximately 3,800 km of watermains and 58,000 valves
- Emergency and scheduled repair of watermain breaks throughout distribution system ~250 break repairs per year
- First Response - 24 hour per day response for residents with drinking water and wastewater concerns
- Provision of fire protection through inspection, maintenance and repair of over 23,000 public fire hydrants
- Maintaining the City's accreditation as an Operating Authority for the Drinking Water Quality Management System
- Process optimization, research, and continual improvements to the water treatment process
- Water quality sampling, testing, monitoring, and reporting of 100,000 tests per year for quality assurance
- Customer service for on-site water quality testing, complaints, water meters, inquiries, etc.
- Technical and operational support for capital infrastructure renewal and development projects
- Participation in water industry activities and organizations (committees, university research, advisory councils, etc.)

City of Ottawa
Infrastructure & Water Services Department
Drinking Water Services - Operating Resource Requirement
In Thousands (\$000)

	2022	2023		2024	\$ Change over 2023 Budget
	Actual	Forecast	Budget	Estimate	
Expenditures by Program					
Facilities and Treatment	42,146	43,043	41,758	44,558	2,800
Linear and Customer Service	33,514	35,515	37,515	38,735	1,220
Non Departmental	134,495	137,652	137,952	138,282	330
Gross Expenditure	210,155	216,210	217,225	221,575	4,350
Recoveries & Allocations	(13,331)	(13,812)	(13,827)	(13,872)	(45)
Revenue	(196,684)	(203,698)	(203,398)	(207,703)	(4,305)
Net Requirement	140	(1,300)	0	0	0
Expenditures by Type					
Salaries, Wages & Benefits	28,391	28,980	30,480	32,205	1,725
Overtime	1,440	1,487	1,987	2,027	40
Material & Services	23,181	23,639	22,354	24,524	2,170
Transfers/Grants/Financial Charges	105,966	106,210	106,510	105,625	(885)
Fleet Costs	3,330	3,141	3,641	3,641	0
Program Facility Costs	0	0	0	0	0
Other Internal Costs	47,847	52,753	52,253	53,553	1,300
Gross Expenditures	210,155	216,210	217,225	221,575	4,350
Recoveries & Allocations	(13,331)	(13,812)	(13,827)	(13,872)	(45)
Net Expenditure	196,824	202,398	203,398	207,703	4,305
Revenues By Type					
Federal	0	0	0	0	0
Provincial	0	0	0	0	0
Own Funds	(612)	(750)	(650)	(650)	0
Fees and Services	(196,072)	(202,948)	(202,748)	(207,053)	(4,305)
Fines	0	0	0	0	0
Other	0	0	0	0	0
Total Revenue	(196,684)	(203,698)	(203,398)	(207,703)	(4,305)
Net Requirement	140	(1,300)	0	0	0
Full Time Equivalents			283.86	283.86	0.00

City of Ottawa
Infrastructure & Water Services Department
Drinking Water Services - User Fees

	2022 Rate \$	2023 Rate \$	2024 Rate \$	% Change Over 2023	% Change Over 2022	Effective Date	2024 Revenue (\$000)
Water Services Connection							(50)
All sizes of Service Pipe							
Cost plus 15%, hourly	153.00	156.00	160.00	2.6%	4.6%	01-Jan-24	
Additional visit (service connection 20 mm-50 mm) - Cost plus 15%, hourly (new fee)	153.00	156.00	160.00	2.6%	4.6%	01-Jan-24	
Additional visit (service connection > 50 mm) - Cost plus 15%, hourly (new fee)	219.00	223.00	229.00	2.7%	4.6%	01-Jan-24	
Private service connection - Cost plus 15%, hourly (new fee)	153.00	156.00	160.00	2.6%	4.6%	01-Jan-24	
Services							
All Thawing of Services							
Cost plus 15%, hourly	191.00	195.00	200.00	2.6%	4.7%	01-Jan-24	
Fire Flow Test Support	276.00	282.00	290.00	2.8%	5.1%	01-Jan-24	
Service Charges							
Turn water services off and on for non payment	208.00	212.00	218.00	2.8%	4.8%	01-Jan-24	
Turn off or on of water services (per operation)	104.00	106.00	109.00	2.8%	4.8%	01-Jan-24	
Permit for Flusher Hydrant Usage	297.00	303.00	311.00	2.6%	4.7%	01-Jan-24	
Blanking of Water Services							
All sizes	Cost plus 15% \$4,000.00 deposit	Cost plus 15% \$4,000.00 deposit	Cost plus 15% \$4,000.00 deposit	0.0%	0.0%	01-Jan-24	

City of Ottawa
Infrastructure & Water Services Department
Drinking Water Services - User Fees

	2022 Rate \$	2023 Rate \$	2024 Rate \$	% Change Over 2023	% Change Over 2022	Effective Date	2024 Revenue (\$000)
Inspection Fees (Inspection of activities connected to the water distribution system)							
All new watermains and services that don't require full disinfection	216.00	220.00	226.00	2.7%	4.6%	01-Jan-24	
All new watermains and services up to 50m long that require full disinfection	643.00	656.00	673.00	2.6%	4.7%	01-Jan-24	
All new watermains and services over 50m long that require full disinfection	Cost plus 15%	Cost plus 15%	Cost plus 15%	0.0%	0.0%	01-Jan-24	
Fees Managed by Revenue Services							
Meter Service Charges							
Inspection/Re-Inspection for New Water Meters (<= 20 mm meter)	109.00	112.00	115.00	2.7%	5.5%	01-Jan-24	
Meter Maintenance Service Call	186.00	192.00	197.00	2.6%	5.9%	01-Jan-24	
Water Meter Accuracy Test (<= 25 mm meter)	153.00	153.00	157.00	2.6%	2.6%	01-Jan-24	
Water Meter Accuracy Test (> 25 mm meter) (New in 2019)	205.00	205.00	205.00	0.0%	0.0%	01-Jan-24	
Additional visits (<= 25 mm meter)	72.00	74.00	76.00	2.7%	5.6%	01-Jan-24	
Additional visits (large meters greater than 25 mm)	121.00	121.00	124.00	2.5%	2.5%	01-Jan-24	
Additional visits (fire line meters)	227.00	234.00	240.00	2.6%	5.7%	01-Jan-24	
Manual Meter Reading Fee	42.00	43.00	44.00	2.3%	4.8%	01-Jan-24	

City of Ottawa
Infrastructure & Water Services Department
Drinking Water Services - User Fees

	2022 Rate \$	2023 Rate \$	2024 Rate \$	% Change Over 2023	% Change Over 2022	Effective Date	2024 Revenue (\$000)
New Water Meters							
Size of Meter							
15 mm Pos. Disp.	412.00	424.00	435.00	2.6%	5.6%	01-Jan-24	
15 mm Pos. Disp.(Carlsbad only)	620.00	639.00	655.00	2.5%	5.6%	01-Jan-24	
20 mm Pos. Disp.	456.00	470.00	482.00	2.6%	5.7%	01-Jan-24	
25 mm Pos. Disp.	537.00	553.00	567.00	2.5%	5.6%	01-Jan-24	
40 mm Pos. Disp.	999.00	1,029.00	1,055.00	2.5%	5.6%	01-Jan-24	
50 mm Pos. Disp.	1,109.00	1,142.00	1,171.00	2.5%	5.6%	01-Jan-24	
75 mm Solid State	3,391.00	3,391.00	3,476.00	2.5%	2.5%	01-Jan-24	
100 mm Solid State	3,866.00	3,866.00	3,963.00	2.5%	2.5%	01-Jan-24	
150 mm Solid State	5,810.00	5,984.00	6,134.00	2.5%	5.6%	01-Jan-24	
Fire Line Meter Assembly - Cost plus 15%, hourly	230.00	237.00	243.00	2.5%	5.7%	01-Jan-24	
Replacement Water Meters							
Size of Meter							
15 mm Pos. Disp.	298.00	307.00	315.00	2.6%	5.7%	01-Jan-24	
15 mm Pos. Disp.(Carlsbad only)	303.00	312.00	320.00	2.6%	5.6%	01-Jan-24	
20 mm Pos. Disp.	343.00	353.00	362.00	2.5%	5.5%	01-Jan-24	
25 mm Pos. Disp.	424.00	437.00	448.00	2.5%	5.7%	01-Jan-24	
40 mm Pos. Disp.	849.00	874.00	896.00	2.5%	5.5%	01-Jan-24	
50 mm Pos. Disp.	963.00	992.00	1,017.00	2.5%	5.6%	01-Jan-24	
75 mm Solid State	3,143.00	3,143.00	3,222.00	2.5%	2.5%	01-Jan-24	
100 mm Solid State	3,617.00	3,617.00	3,707.00	2.5%	2.5%	01-Jan-24	
150 mm Solid State	5,562.00	5,562.00	5,701.00	2.5%	2.5%	01-Jan-24	
Temporary removal and installation of meter	155.00	160.00	164.00	2.5%	5.8%	01-Jan-24	
City water meter reading device (new or damaged) replacement	234.00	241.00	247.00	2.5%	5.6%	01-Jan-24	
City water meter reading device and/or water meter reader wire re-location	184.00	190.00	195.00	2.6%	6.0%	01-Jan-24	
Total for all fees above							(50)

City of Ottawa
Infrastructure & Water Services Department
Drinking Water Services - User Fees

	2022 Rate \$	2023 Rate \$	2024 Rate \$	% Change Over 2023	% Change Over 2022	Effective Date	2024 Revenue (\$000)
Non Departmental							(3,835)
Distribution of Drinking Water							
Variable Rate - per cubic meter water consumed							
0 - 6 m3	0.88	0.90	0.92	2.0%	4.7%	01-Apr-24	
>6 - 25 m3	1.75	1.79	1.83	2.0%	4.1%	01-Apr-24	
>25 - 180 m3	1.93	1.97	2.01	2.0%	4.1%	01-Apr-24	
>180 m3	2.15	2.20	2.24	2.0%	4.1%	01-Apr-24	
Daily Fixed Fee Rates - per meter size							
15 mm	0.36	0.36	0.37	2.0%	3.0%	01-Apr-24	
20 mm	0.51	0.53	0.54	2.0%	4.1%	01-Apr-24	
25 mm	0.86	0.88	0.89	2.0%	4.1%	01-Apr-24	
40 mm	1.72	1.75	1.79	2.0%	4.1%	01-Apr-24	
50 mm	2.74	2.80	2.85	2.0%	4.1%	01-Apr-24	
75 mm	5.14	5.25	5.35	2.0%	4.1%	01-Apr-24	
100 mm	8.57	8.75	8.92	2.0%	4.1%	01-Apr-24	
150 mm	17.15	17.50	17.85	2.0%	4.1%	01-Apr-24	
200 mm	27.44	28.00	28.56	2.0%	4.1%	01-Apr-24	
250 mm	39.44	40.24	41.05	2.0%	4.1%	01-Apr-24	
300 mm	73.74	75.25	76.75	2.0%	4.1%	01-Apr-24	
Compound Meter	1.62	1.65	1.68	2.0%	3.7%	01-Apr-24	
Fire Supply Charge							(465)
Annual cost - per meter size							
15 mm meter	50.59	51.60	52.63	2.0%	4.0%	01-Apr-24	
20 mm meter	89.94	91.74	93.57	2.0%	4.0%	01-Apr-24	
25 mm meter	140.54	143.35	146.22	2.0%	4.0%	01-Apr-24	
40 mm meter	359.76	366.96	374.30	2.0%	4.0%	01-Apr-24	
50 mm meter	562.14	573.39	584.86	2.0%	4.0%	01-Apr-24	
75 mm meter	1,264.81	1,290.11	1,315.91	2.0%	4.0%	01-Apr-24	
100 mm meter	2,248.55	2,293.52	2,339.39	2.0%	4.0%	01-Apr-24	
150 mm meter	5,059.23	5,160.42	5,263.63	2.0%	4.0%	01-Apr-24	
200 mm meter	8,994.19	9,174.08	9,357.56	2.0%	4.0%	01-Apr-24	
250 mm meter	14,053.43	14,334.50	14,621.19	2.0%	4.0%	01-Apr-24	
Total Departmental							(4,350)

Infrastructure and Water Services Department 2024 Service Area Summary - Wastewater Services

Wastewater Services is responsible for the management, operations, and maintenance of the wastewater collection system and treatment plant. The collection systems include sanitary, combined, storm sewers and facilities. The City's wastewater is treated at the Robert O. Pickard Environmental Centre (ROPEC) to ensure minimal environmental impact upon re-entry to the Ottawa River. This includes comprehensive maintenance and operation within regulatory framework, and an environmentally sound management of facilities and collection systems. Wastewater Treatment is also responsible for maintenance, operation and repairs of the Supervisory control and data acquisition (SCADA) system and ROPEC.

Programs/Services Offered

- Operation and maintenance (including cleaning, inspection, and repair) of the wastewater collection system, comprised of over 5,900 km of sanitary, combined, and storm pipes, 95,000 maintenance holes, 104,000 catch basins, and 1,800 stormwater outlets
- Operation and maintenance of 90 facilities including sanitary sewage and storm water pumping stations, combined sewage regulators/storage facilities (including the Combined Sewage Storage Tunnel), odour control facilities and ROPEC, where all the City's wastewater is treated
- Sewer Use By-law compliance, monitoring, and enforcement, to ensure discharges into the sewer system are within regulatory limits
- Compliance with all wastewater regulations, inspections, audits, and operator certification requirements
- SCADA and communication systems maintenance and operation
- Operational support for capital infrastructure rehabilitation, renewal and development projects, including upgrades to ROPEC facility
- Quality assurance, compliance management and reporting
- Process optimization, and continual improvements to the wastewater collection system and treatment process

City of Ottawa
Infrastructure & Water Services Department
Wastewater Services - Operating Resource Requirement
In Thousands (\$000)

	2022	2023		2024	\$ Change over 2023 Budget
	Actual	Forecast	Budget	Estimate	
Expenditures by Program					
Facilities and Treatment	41,370	36,360	35,140	38,780	3,640
Linear and Customer Service	26,863	25,765	25,765	27,240	1,475
Non Departmental	124,411	126,296	127,126	127,661	535
Gross Expenditure	192,644	188,421	188,031	193,681	5,650
Recoveries & Allocations	(22,177)	(13,980)	(13,980)	(13,980)	0
Revenue	(165,168)	(174,651)	(174,051)	(179,701)	(5,650)
Net Requirement	5,299	(210)	0	0	0
Expenditures by Type					
Salaries, Wages & Benefits	25,411	25,670	25,580	27,006	1,426
Overtime	871	967	967	986	19
Material & Services	29,767	28,024	27,024	30,314	3,290
Transfers/Grants/Financial Charges	98,371	98,241	99,071	98,396	(675)
Fleet Costs	1,957	2,414	2,014	2,054	40
Program Facility Costs	0	0	0	0	0
Other Internal Costs	36,267	33,105	33,375	34,925	1,550
Gross Expenditures	192,644	188,421	188,031	193,681	5,650
Recoveries & Allocations	(22,177)	(13,980)	(13,980)	(13,980)	0
Net Expenditure	170,467	174,441	174,051	179,701	5,650
Revenues By Type					
Federal	0	0	0	0	0
Provincial	0	0	0	0	0
Own Funds	(4,477)	(5,325)	(4,725)	(4,725)	0
Fees and Services	(160,691)	(169,326)	(169,326)	(174,976)	(5,650)
Fines	0	0	0	0	0
Other	0	0	0	0	0
Total Revenue	(165,168)	(174,651)	(174,051)	(179,701)	(5,650)
Net Requirement	5,299	(210)	0	0	0
Full Time Equivalents			219.50	224.45	4.95

City of Ottawa
Infrastructure & Water Services Department
Wastewater Services - User Fees

	2022 Rate \$	2023 Rate \$	2024 Rate \$	% Change Over 2023	% Change Over 2022	Effective Date	2024 Revenue (\$000)
Sanitary Sewer Systems							(50)
Sewer Use Program - Disposal Fees							
Septic Tank Strength Liquid Material (per cubic meter)	17.10	17.10	17.10	0.0%	0.0%	01-Jan-24	
Holding Tank Strength Liquid Material (per cubic metre)	3.67	3.67	3.67	0.0%	0.0%	01-Jan-24	
Liquid Material Generated Outside the City of Ottawa (per cubic metre)	29.81	29.81	29.81	0.0%	0.0%	01-Jan-24	
Sewer Use Program - Permit Fees							
Annual Permit Fee	355.00	362.00	372.00	2.8%	4.8%	01-Jan-24	
Annual Permit Revision Fee	143.00	146.00	150.00	2.7%	4.9%	01-Jan-24	
Sewer Use Program - Discharge Fees							
Conveyance Fee	1.71	1.74	1.79	2.5%	4.6%	01-Jan-24	
Treatment Fee	1.06	1.08	1.11	2.6%	4.6%	01-Jan-24	
Sewer Use Program - Discharge Fees - Parameters in Sewage							
Biochemical Oxygen Demand (per kg)	1.66	1.66	1.66	0.0%	0.0%	01-Jan-24	
Suspended Solids (per kg)	0.88	0.88	0.88	0.0%	0.0%	01-Jan-24	
Phenolic Compounds (per kg)	1.66	1.66	1.66	0.0%	0.0%	01-Jan-24	
Kjeldahl Nitrogen (per kg)	6.60	6.60	6.60	0.0%	0.0%	01-Jan-24	
Phosphorus (per kg)	2.66	2.66	2.66	0.0%	0.0%	01-Jan-24	
Sewer Use Program - Administrative Fees							
Special Discharge Agreement Fee	1,482.00	1,512.00	1,550.00	2.5%	4.6%	01-Jan-24	
Sanitary Sewer Agreement Fee	744.00	759.00	778.00	2.5%	4.6%	01-Jan-24	
Compliance Program Fee	1,399.00	1,427.00	1,463.00	2.5%	4.6%	01-Jan-24	
Combined Agreement Fee	1,416.00	1,444.00	1,481.00	2.6%	4.6%	01-Jan-24	
Sanitary Discharge Agreement Revision Fee	292.00	298.00	306.00	2.7%	4.8%	01-Jan-24	
Combined Agreement Revision Fee	292.00	298.00	306.00	2.7%	4.8%	01-Jan-24	
Sanitary Sewer Agreement Revision Fee (per revision)	367.00	374.00	384.00	2.7%	4.6%	01-Jan-24	
Compliance Program Revision Fee (per revision)	292.00	298.00	306.00	2.7%	4.8%	01-Jan-24	

City of Ottawa
Infrastructure & Water Services Department
Wastewater Services - User Fees

	2022 Rate \$	2023 Rate \$	2024 Rate \$	% Change Over 2023	% Change Over 2022	Effective Date	2024 Revenue (\$000)
Non Departmental							(5,100)
Sewer Surcharge for Sanitary Sewer Systems							
Variable Rate - per cubic meter water consumed							
0 - 6 m3	0.81	0.83	0.86	3.0%	6.1%	01-Apr-24	
>6 - 25 m3	1.61	1.66	1.71	3.0%	6.1%	01-Apr-24	
>25 - 180 m3	1.77	1.83	1.88	3.0%	6.1%	01-Apr-24	
>180 m3	2.00	2.06	2.12	3.0%	6.1%	01-Apr-24	
Daily Fixed Fee Rates - per meter size							
15 mm	0.31	0.32	0.33	3.0%	6.0%	01-Apr-24	
20 mm	0.47	0.48	0.50	3.0%	6.2%	01-Apr-24	
25 mm	0.78	0.81	0.83	3.0%	6.7%	01-Apr-24	
40 mm	1.56	1.61	1.66	3.0%	6.1%	01-Apr-24	
50 mm	2.50	2.58	2.66	3.0%	6.1%	01-Apr-24	
75 mm	4.69	4.83	4.98	3.0%	6.1%	01-Apr-24	
100 mm	7.82	8.06	8.30	3.0%	6.1%	01-Apr-24	
150 mm	15.64	16.12	16.60	3.0%	6.1%	01-Apr-24	
200 mm	25.02	25.79	26.56	3.0%	6.1%	01-Apr-24	
250 mm	35.97	37.07	38.18	3.0%	6.1%	01-Apr-24	
Compound Meter	1.55	1.60	1.65	3.0%	6.1%	01-Apr-24	
Total Departmental							(5,150)

Infrastructure and Water Services Department 2024 Service Area Summary - Stormwater, Laboratory and Municipal Drainage Services

Stormwater, Laboratory and Municipal Drainage Services are responsible for the operational planning, development and management of the City's stormwater management facilities, fully accredited and licensed laboratory services and municipal drainage services within a regulatory framework.

Programs/Services Offered

- Operation, maintenance, and inspection of all municipal stormwater management facilities including: 133 wet ponds, 100 dry ponds, 83 underground stormwater treatment facilities
- Operation, maintenance, and inspection of low impact development stormwater infrastructure (commonly referred to as green infrastructure) that supports environmental conservation and protection of water quality
- Operation and maintenance of the City's rain-gauge monitoring network
- Water quality monitoring within Ottawa's major rivers to assess the environmental effects of regulated municipal infrastructure
- Management and maintenance of laboratory license and accreditation requirements and renewals as required through the Ministry of the Environment, Conservation and Parks and the Accreditation Body (Canadian Association for Laboratory Accreditation)
- Inspection and maintenance, improvement, modification, and construction of all municipal drains to ensure compliance with the *Drainage Act, R.S.O. 1990. c. D. 17*
- Administration and investigation of drainage issues related to City-owned drainage easements and private property, outside the Road Right-of-Way (ROW) in support of the Site Alteration By-law 2018-164
- Recovery of costs related to the administration of the *Drainage Act, R.S.O. 1990. c. D. 17* through provincial grants and assessments

City of Ottawa
 Infrastructure & Water Services Department
 Stormwater Services - Operating Resource Requirement
 In Thousands (\$000)

	2022	2023		2024	\$ Change over 2023 Budget
	Actual	Forecast	Budget	Estimate	
Expenditures by Program					
Stormwater Operations	14,564	13,549	14,049	14,434	385
Non Departmental	61,813	72,363	71,863	81,393	9,530
Gross Expenditure	76,377	85,912	85,912	95,827	9,915
Recoveries & Allocations	(3,813)	(3,444)	(3,444)	(3,444)	0
Revenue	(71,804)	(81,668)	(82,468)	(92,383)	(9,915)
Net Requirement	760	800	0	0	0
Expenditures by Type					
Salaries, Wages & Benefits	5,034	5,111	5,071	5,360	289
Overtime	5	23	63	64	1
Material & Services	1,965	2,053	2,553	2,648	95
Transfers/Grants/Financial Charges	48,339	58,911	57,911	67,201	9,290
Fleet Costs	260	250	250	250	0
Program Facility Costs	0	0	0	0	0
Other Internal Costs	20,774	19,564	20,064	20,304	240
Gross Expenditures	76,377	85,912	85,912	95,827	9,915
Recoveries & Allocations	(3,813)	(3,444)	(3,444)	(3,444)	0
Net Expenditure	72,564	82,468	82,468	92,383	9,915
Revenues By Type					
Federal	0	0	0	0	0
Provincial	(214)	(145)	(145)	(145)	0
Own Funds	0	0	0	0	0
Fees and Services	(71,590)	(81,523)	(82,323)	(92,238)	(9,915)
Fines	0	0	0	0	0
Other	0	0	0	0	0
Total Revenue	(71,804)	(81,668)	(82,468)	(92,383)	(9,915)
Net Requirement	760	800	0	0	0
Full Time Equivalents			44.00	45.00	1.00

City of Ottawa
Infrastructure & Water Services Department
Stormwater Services - User Fees

	2022 Rate \$	2023 Rate \$	2024 Rate \$	% Change Over 2023	% Change Over 2022	Effective Date	2024 Revenue (\$000)
Laboratory Services (Tests)							
Alkalinity, PH, Conductivity	11.48	11.71	12.00	2.5%	4.5%	01-Jan-24	
Alkalinity Brinkman (wastewater)	17.27	17.62	18.06	2.5%	4.6%	01-Jan-24	
Biochemical Oxygen Demand	18.88	19.26	19.74	2.5%	4.6%	01-Jan-24	
Carbonaceous Biochemical Demand	18.88	19.26	19.74	2.5%	4.6%	01-Jan-24	
Chloride	13.42	13.69	14.03	2.5%	4.5%	01-Jan-24	
Chemical Oxygen Demand	12.27	12.52	12.83	2.5%	4.6%	01-Jan-24	
Conductivity	11.48	11.71	12.00	2.5%	4.5%	01-Jan-24	
Dissolved Organic Carbon	16.21	16.53	16.94	2.5%	4.5%	01-Jan-24	
DNA Filtration	N/A	15.61	16.00	2.5%	100.0%	01-Jan-24	
E. coli (wastewater)	12.91	13.17	13.50	2.5%	4.6%	01-Jan-24	
Fluoride (SIE)	18.52	18.89	19.36	2.5%	4.5%	01-Jan-24	
Heterotrophic Plate	13.72	13.99	14.34	2.5%	4.5%	01-Jan-24	
Halo Acetic Acid	147.44	150.39	154.15	2.5%	4.6%	01-Jan-24	
Hardness	N/A	2.34	2.40	2.6%	100.0%	01-Jan-24	
ICP-OES Industrial Waste - 28 elements	29.17	29.75	30.49	2.5%	4.5%	01-Jan-24	
ICP-OES Metals Scan - 5 elements	15.11	15.41	15.80	2.5%	4.6%	01-Jan-24	
ICP-OES Metal Scan - 28 elements	25.30	25.81	26.46	2.5%	4.6%	01-Jan-24	
ICP/MS Metal Scan SW/DW - 27 elements	40.77	41.59	42.63	2.5%	4.6%	01-Jan-24	
ICP/MS Lead DW	15.11	15.41	15.80	2.5%	4.6%	01-Jan-24	
Ammonia - Surface/Waste Water	11.52	11.75	12.04	2.5%	4.5%	01-Jan-24	
Ion Chromatography	18.52	18.89	19.36	2.5%	4.5%	01-Jan-24	
Mercury	37.53	38.28	39.24	2.5%	4.6%	01-Jan-24	
Nitrates	13.42	13.69	14.03	2.5%	4.5%	01-Jan-24	
PH	11.48	11.71	12.00	2.5%	4.5%	01-Jan-24	
Reactive Phosphorus	11.52	11.75	12.04	2.5%	4.5%	01-Jan-24	
Sample Disposal	N/A	N/A	2.00	100.0%	100.0%	01-Jan-24	
Soluble Biochemical Oxygen Demand	19.94	20.34	20.85	2.5%	4.6%	01-Jan-24	
Soluble Carbonaceous Biochemical Oxygen Demand	19.94	20.34	20.85	2.5%	4.6%	01-Jan-24	
Soluble Chemical Oxygen Demand	13.33	13.60	13.94	2.5%	4.6%	01-Jan-24	
Specific gravity	23.88	24.36	24.97	2.5%	4.6%	01-Jan-24	
Sulphate	13.42	13.69	14.03	2.5%	4.5%	01-Jan-24	
Soluble Phosphorus	16.68	17.01	17.44	2.5%	4.6%	01-Jan-24	
Soluble Kjeldahl Nitrogen	16.68	17.01	17.44	2.5%	4.6%	01-Jan-24	

City of Ottawa
Infrastructure & Water Services Department
Stormwater Services - User Fees

	2022 Rate \$	2023 Rate \$	2024 Rate \$	% Change Over 2023	% Change Over 2022	Effective Date	2024 Revenue (\$000)
Laboratory Services (Tests) cont'd							
Total Coliforms - E-Coli (DC)	11.89	12.13	12.43	2.5%	4.5%	01-Jan-24	
Total Coliforms - E-Coli (PA)	22.39	22.84	23.41	2.5%	4.6%	01-Jan-24	
Total Coliforms - E-Coli (MPN)	23.36	23.83	24.43	2.5%	4.6%	01-Jan-24	
Total Kjeldahl Nitrogen	15.66	15.97	16.37	2.5%	4.5%	01-Jan-24	
Total Phosphorus	15.66	15.97	16.37	2.5%	4.5%	01-Jan-24	
Total Solid - Waste Water	12.08	12.32	12.63	2.5%	4.6%	01-Jan-24	
Total Solid - Solid	12.08	12.32	12.63	2.5%	4.6%	01-Jan-24	
Total Suspended Solid	11.28	11.51	11.80	2.5%	4.6%	01-Jan-24	
Trihalomethane/VOC Full Scan	68.24	69.60	71.34	2.5%	4.5%	01-Jan-24	
Volatile Acids	42.01	42.85	43.92	2.5%	4.5%	01-Jan-24	
Volatile Solids - Waste Water	12.85	13.11	13.44	2.5%	4.6%	01-Jan-24	
Volatile Solids - Solids	13.09	13.35	13.68	2.5%	4.5%	01-Jan-24	
Volatile Suspended Solid (Water)	13.03	13.29	13.62	2.5%	4.5%	01-Jan-24	
Drinking Water Anion (Chloride, fluoride, nitrite and nitrate, sulphate)	18.52	18.89	19.36	2.5%	4.5%	01-Jan-24	
Total Nutrients (Ammonia + Ammonia, Reactive Phosphorus)	12.54	12.79	13.11	2.5%	4.5%	01-Jan-24	
TKN/TP (Total Kjeldahl Nitrogen, Total Phosphorus)	16.68	17.01	17.44	2.5%	4.6%	01-Jan-24	

City of Ottawa
Infrastructure & Water Services Department
Stormwater Services - User Fees

	2022 Rate \$	2023 Rate \$	2024 Rate \$	% Change Over 2023	% Change Over 2022	Effective Date	2024 Revenue (\$000)
Non Departmental							
Annual Stormwater Service Fees							
Residential Connected							
Urban Single/Semi	167.30	187.42	209.91	12.0%	25.5%	01-Apr-24	
Rural Single/Semi	167.30	187.42	209.91	12.0%	25.5%	01-Apr-24	
Urban Townhouse/Apt	83.65	93.71	104.96	12.0%	25.5%	01-Apr-24	
Rural Townhouse/Apt	83.65	93.71	104.96	12.0%	25.5%	01-Apr-24	
Residential Non-Connected							
Urban Single/Semi	117.11	131.19	146.93	12.0%	25.5%	01-Apr-24	
Rural Single/Semi	83.65	93.71	104.96	12.0%	25.5%	01-Apr-24	
Urban Townhouse/Apt	58.55	65.60	73.47	12.0%	25.5%	01-Apr-24	
Rural Townhouse/Apt	41.82	46.85	52.47	12.0%	25.5%	01-Apr-24	
Industrial, Commercial and Institutional (ICI)							
ICI Connected Urban and Rural							
0 to 300K Assessment	78.39	87.81	98.35	12.0%	25.5%	01-Apr-24	
>300K to 1M Assessment	370.98	415.58	465.45	12.0%	25.5%	01-Apr-24	
>1M to 5M Assessment	1,383.74	1,550.13	1,736.15	12.0%	25.5%	01-Apr-24	
>5M to 20M Assessment	6,066.24	6,795.67	7,611.15	12.0%	25.5%	01-Apr-24	
>20M to 50M Assessment	18,361.58	20,569.46	23,037.80	12.0%	25.5%	01-Apr-24	
>50M to 100M Assessment	44,315.49	49,644.18	55,601.48	12.0%	25.5%	01-Apr-24	
>100M to 150M Assessment	74,335.48	83,273.91	93,266.78	12.0%	25.5%	01-Apr-24	
>150M Assessment	157,416.88	176,345.39	197,506.84	12.0%	25.5%	01-Apr-24	

City of Ottawa
Infrastructure & Water Services Department
Stormwater Services - User Fees

	2022 Rate \$	2023 Rate \$	2024 Rate \$	% Change Over 2023	% Change Over 2022	Effective Date	2024 Revenue (\$000)
ICI Non-Connected - Urban							
0 to 300K Assessment	78.39	87.81	98.35	12.0%	25.5%	01-Apr-24	
>300K to 1M Assessment	370.98	415.58	465.45	12.0%	25.5%	01-Apr-24	
>1M to 5M Assessment	1,383.74	1,550.13	1,736.15	12.0%	25.5%	01-Apr-24	
>5M to 20M Assessment	6,066.24	6,795.67	7,611.15	12.0%	25.5%	01-Apr-24	
>20M to 50M Assessment	18,361.58	20,569.46	23,037.80	12.0%	25.5%	01-Apr-24	
>50M to 100M Assessment	44,315.49	49,644.18	55,601.48	12.0%	25.5%	01-Apr-24	
>100M to 150M Assessment	74,335.48	83,273.91	93,266.78	12.0%	25.5%	01-Apr-24	
>150M Assessment	157,416.88	176,345.39	197,506.84	12.0%	25.5%	01-Apr-24	
ICI Non-Connected - Rural							
0 to 300K Assessment	54.87	61.47	68.85	12.0%	25.5%	01-Apr-24	
>300K to 1M Assessment	259.68	290.91	325.82	12.0%	25.5%	01-Apr-24	
>1M to 5M Assessment	968.62	1,085.09	1,215.30	12.0%	25.5%	01-Apr-24	
>5M to 20M Assessment	4,246.37	4,756.97	5,327.81	12.0%	25.5%	01-Apr-24	
>20M to 50M Assessment	12,853.11	14,398.62	16,126.45	12.0%	25.5%	01-Apr-24	
>50M to 100M Assessment	31,020.84	34,750.93	38,921.04	12.0%	25.5%	01-Apr-24	
>100M to 150M Assessment	52,034.84	58,291.74	65,286.75	12.0%	25.5%	01-Apr-24	
>150M Assessment	110,191.82	123,441.77	138,254.78	12.0%	25.5%	01-Apr-24	
Total Departmental							(9,915)

City Of Ottawa
2024 Draft Capital Budget
Environment and Climate Change Committee - Rate
Capital Funding Summary
In Thousands (\$000)

	Revenues	Tax Supported/ Dedicated	Rate Supported	Develop. Charges	Gas Tax	Tax Supported/ Dedicated Debt	Rate Supported Debt	Develop. Charges Debt	Gas Tax Debt	Grand Total
Drinking Water Services										
Renewal of City Assets										
906664 Hurdman Bridge PS Renewal	0	0	10,600	0	0	0	0	0	0	10,600
908076 Large Water Meters Changeout Program	0	0	2,300	0	0	0	0	0	0	2,300
908908 Small Water Meters Changeout Program	0	0	100	0	0	0	0	0	0	100
908909 Advanced Metering Infra. (AMI) Changeout	0	0	3,025	0	0	0	0	0	0	3,025
908996 Meter Service Mobility	0	0	50	0	0	0	0	0	0	50
909974 Lemieux High Lift PS Structural Upgrades	0	0	4,914	0	0	0	0	0	0	4,914
910251 Britannia High Voltage Project	0	0	2,677	0	0	0	0	0	0	2,677
910396 Geoscience Studies	0	0	238	29	0	0	0	0	0	267
910529 New Vehicles Drinking Water 2022	0	0	785	0	0	0	0	0	0	785
910674 Lemieux MCC-3M and HLE1&2 Motor Replace	0	0	3,760	0	0	0	0	0	0	3,760
910801 Lemieux Expansion Joint Rehab	0	0	800	0	0	0	0	0	0	800
910894 Prince of Wales (Green Valley - DE)	0	0	1,230	0	0	0	0	0	0	1,230
911303 2024 Water System Improvements	0	0	0	0	0	0	8,500	0	0	8,500
911304 2024 WM Transmission/Distribution Rehab	0	0	1,500	0	0	0	4,000	0	0	5,500
911305 2024 Water Structures - Inspections	0	0	40	0	0	0	0	0	0	40
911312 2024 Water Efficiency	0	0	150	0	0	0	0	0	0	150
911313 2024 Water Storage Tanks & Reservoirs	0	0	7,938	0	0	0	0	0	0	7,938
911314 2024 DWS Capitalized Maintenance	0	0	1,400	0	0	0	0	0	0	1,400
911316 2024 Water Treatment Rehab	0	0	1,458	0	0	0	5,022	0	0	6,480
911317 2024 Water Pumping Station Rehab	0	0	770	0	0	0	0	0	0	770
911318 2024 Lead Pipe Replacement Program	0	0	500	0	0	0	0	0	0	500
911319 2024 Cathodic Protection Program	0	0	150	0	0	0	0	0	0	150
911320 2024 Water Distribution System Improv.	0	0	3,500	0	0	0	0	0	0	3,500
911321 2024 Ops Condition Assess Critical Link	0	0	2,793	0	0	0	0	0	0	2,793
Renewal of City Assets Total	0	0	50,678	29	0	0	17,522	0	0	68,229
Growth										
900631 Carlington Heights Pumping Stn Expansion	0	0	890	346	0	0	0	0	0	1,236
902206 Ottawa South Pumping Station Upgrade	0	0	858	534	0	0	0	359	0	1,751
903295 Brittany Pumping Station	0	0	79	0	0	0	100	130	0	309
904916 Kanata West Feedermain	0	0	409	4,579	0	0	100	0	0	5,088
904982 Zone 2W West March Rd 406 to 610 Upgrade	0	0	478	4,298	0	0	0	0	0	4,776
907100 Carp Well Capacity Increase	232	0	283	0	0	0	0	0	0	515
910900 2023 Off Site Reliability Links	0	0	52	464	0	0	0	0	0	516
910902 2023 Rural Servicing Strategy	0	0	52	52	0	0	0	0	0	104
910903 2023 Water & Wastewater Studies	0	0	104	412	0	0	0	0	0	516
Growth Total	232	0	3,205	10,685	0	0	200	489	0	14,811
Drinking Water Services Total	232	0	53,883	10,714	0	0	17,722	489	0	83,040
Integrated Water & Wastewater										
Renewal of City Assets										
910887 2023 Easement Agreements Updates	0	0	2,900	0	0	0	100	0	0	3,000

City Of Ottawa
2024 Draft Capital Budget
Environment and Climate Change Committee - Rate
Capital Funding Summary
In Thousands (\$000)

	Revenues	Tax Supported/ Dedicated	Rate Supported	Develop. Charges	Gas Tax	Tax Supported/ Dedicated Debt	Rate Supported Debt	Develop. Charges Debt	Gas Tax Debt	Grand Total
911285 2024 Hydraulic Structures	0	0	750	0	0	0	0	0	0	750
911286 2024 Sewer Repairs / Improvements	0	0	0	0	0	0	8,000	0	0	8,000
911287 2024 Sewer Trenchless Rehab	0	0	2,000	0	0	0	2,000	0	0	4,000
911348 2024 Sewer & Water Inspect and Data Man.	0	0	1,400	0	0	0	0	0	0	1,400
911362 Tech Roadmap, Data Strategy & Decision	0	0	250	0	0	0	0	0	0	250
911363 2024 Technology Need and Mobility Proj	0	0	1,500	0	0	0	0	0	0	1,500
911368 Technology Improvement Initiatives	0	0	2,490	0	0	0	0	0	0	2,490
Renewal of City Assets Total	0	0	11,290	0	0	0	10,100	0	0	21,390
Integrated Water & Wastewater Total	0	0	11,290	0	0	0	10,100	0	0	21,390
Stormwater Services										
Renewal of City Assets										
908252 Stormwater Mgmt Retrofit Master Plan	0	0	309	0	0	0	0	0	0	309
908618 CWWF Convent Glen North Storm Sewer	0	0	36,930	0	0	0	0	0	0	36,930
911169 2024 New Vehicles Stormwater	0	0	80	0	0	0	0	0	0	80
911196 2024 Stormwater Management Retrofit	0	0	618	0	0	0	412	0	0	1,030
911198 2024 Flood Plain Mapping	0	0	295	0	0	0	40	0	0	335
911294 2024 Drainage Culverts - CW	0	0	1,708	0	0	0	10,670	0	0	12,378
911296 2024 Culverts Scoping Pre/Post Eng.	0	0	800	0	0	0	0	0	0	800
911297 2024 Drainage Culverts - Site-Specific	0	0	500	0	0	0	1,000	0	0	1,500
911298 2024 Drainage Culv-Site-Spec Other	0	0	250	0	0	0	0	0	0	250
911299 2024 Drainage Culverts Assessment	0	0	300	0	0	0	0	0	0	300
911306 2024 Storm and Surface Water Rehab	0	0	1,500	0	0	0	1,000	0	0	2,500
911307 2024 Drainage System Renewal	0	0	0	0	0	0	4,000	0	0	4,000
911326 2024 Stormwater Pumping Station Rehab Pr	0	0	600	0	0	0	0	0	0	600
911339 2024 Stormwater Mgmt: Rehab&Enviro Compl	0	0	2,600	0	0	0	200	0	0	2,800
911340 2024 Linear Storm System Improvements	0	0	1,900	0	0	0	100	0	0	2,000
911341 2024 Municipal Drain Improvements	600	0	50	0	0	0	0	0	0	650
Renewal of City Assets Total	600	0	48,440	0	0	0	17,422	0	0	66,462
Growth										
909730 2020 Stormwater Master Planning	0	0	129	129	0	0	0	0	0	258
Growth Total	0	0	129	129	0	0	0	0	0	258
Stormwater Services Total	600	0	48,569	129	0	0	17,422	0	0	66,720
Wastewater Services										
Renewal of City Assets										
907382 ROPEC Aeration Blower Renewal	0	0	8,021	0	0	0	0	0	0	8,021
909158 ROPEC RSPS Motor & Drive Rehab.	0	0	4,165	0	0	0	0	0	0	4,165
910279 WWC Diesel Gen & Fuel System Rehab	0	0	800	0	0	0	0	0	0	800
911197 2024 Pump Stations Capacity Renewal	0	0	2,113	0	0	0	10	0	0	2,123
911308 2024 ORAP Wet Weather IMP	0	0	2,435	365	0	0	200	0	0	3,000
911322 2024 New Vehicles Wastewater	0	0	385	0	0	0	0	0	0	385
911323 2024 Protective Plumbing Program	0	0	150	0	0	0	0	0	0	150

City Of Ottawa
2024 Draft Capital Budget
Environment and Climate Change Committee - Rate
Capital Funding Summary
In Thousands (\$000)

	Revenues	Tax Supported/ Dedicated	Rate Supported	Develop. Charges	Gas Tax	Tax Supported/ Dedicated Debt	Rate Supported Debt	Develop. Charges Debt	Gas Tax Debt	Grand Total
911324 2024 Forcemain Condition Assess & Rehab	0	0	560	0	0	0	0	0	0	560
911325 2024 WWC Forcemain Rehab	0	0	250	0	0	0	0	0	0	250
911327 2024 Collection Sys CondAssess Large Dia	0	0	1,550	0	0	0	0	0	0	1,550
911328 2024 Collection Sys CondAssess Small Dia	0	0	2,000	0	0	0	0	0	0	2,000
911329 2024 Sewer Lateral Repairs	0	0	2,000	0	0	0	1,500	0	0	3,500
911330 2024 Linear Sewage System Improvements	0	0	1,000	0	0	0	1,000	0	0	2,000
911331 2024 Flow Monitoring System Rehab	0	0	200	0	0	0	0	0	0	200
911332 2024 Sewage Pumping Station Rehab Prog	0	0	437	0	0	0	5,297	0	0	5,734
911333 2024 Wastewater Collection Maintenance	0	0	375	0	0	0	350	0	0	725
911334 ROPEC - Sewage Treatment Rehab Prog 2024	0	0	0	0	0	0	5,665	0	0	5,665
911335 2024 Lab Equipment Replacement	0	0	350	0	0	0	0	0	0	350
911336 2024 ROPEC Capitalized Maintenance	0	0	1,000	0	0	0	0	0	0	1,000
911337 ROPEC Electrical Reliability	0	0	11,700	0	0	0	10,000	0	0	21,700
911338 2024 ROPEC Roofing Rehabilitation Prog	0	0	1,750	0	0	0	0	0	0	1,750
911355 2024 Sanitary Sewer Rehab Prog	0	0	1,600	0	0	0	0	0	0	1,600
911364 ROPEC - SCADA Rehab. & Upgrades 2024	0	0	675	0	0	0	0	0	0	675
Renewal of City Assets Total	0	0	43,516	365	0	0	24,022	0	0	67,903
Growth										
904988 March PS Conversion	0	0	876	0	0	0	0	776	0	1,652
908557 FEA2024 EUC Sanitary Sewer System	0	0	0	110	0	0	0	0	0	110
909992 Richmond Pump Station	0	0	544	692	0	0	0	0	0	1,236
910076 Carp Wastewater PS Upgrade/Overflow	464	0	567	0	0	0	0	0	0	1,031
910906 2023 Pump Stations Capacity Increase	0	0	0	4,897	0	0	0	0	0	4,897
911342 ROPEC Exp.of Chlorine Contact Tanks	0	0	0	3,300	0	0	0	0	0	3,300
911369 ROPEC - Outfall Expansion	0	0	0	1,500	0	0	0	0	0	1,500
Growth Total	464	0	1,987	10,499	0	0	0	776	0	13,726
Wastewater Services Total	464	0	45,503	10,864	0	0	24,022	776	0	81,629
Grand Total	1,296	0	159,245	21,707	0	0	69,266	1,265	0	252,779

City of Ottawa
Infrastructure & Water Services Department
Drinking Water Services - Operating Resource Requirement Analysis
In Thousands (\$000)

	2023 Baseline			2024 Adjustments						2024	\$ Change over 2023 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	COVID-19	Service Initiatives / Savings	User Fees & Revenues	Estimate	
Expenditures by Program											
Facilities and Treatment	43,043	41,758	0	2,800	0	0	0	0	0	44,558	2,800
Linear and Customer Service	35,515	37,515	0	1,050	0	170	0	0	0	38,735	1,220
Non Departmental	137,652	137,952	0	(305)	120	515	0	0	0	138,282	330
Gross Expenditure	216,210	217,225	0	3,545	120	685	0	0	0	221,575	4,350
Recoveries & Allocations	(13,812)	(13,827)	0	(45)	0	0	0	0	0	(13,872)	(45)
Revenue	(203,698)	(203,398)	0	0	0	0	0	0	(4,305)	(207,703)	(4,305)
Net Requirement	(1,300)	0	0	3,500	120	685	0	0	(4,305)	0	0
Expenditures by Type											
Salaries, Wages & Benefits	28,980	30,480	0	1,725	0	0	0	0	0	32,205	1,725
Overtime	1,487	1,987	0	40	0	0	0	0	0	2,027	40
Material & Services	23,639	22,354	0	2,000	0	170	0	0	0	24,524	2,170
Transfers/Grants/Financial Charges	106,210	106,510	0	(885)	0	0	0	0	0	105,625	(885)
Fleet Costs	3,141	3,641	0	0	0	0	0	0	0	3,641	0
Program Facility Costs	0	0	0	0	0	0	0	0	0	0	0
Other Internal Costs	52,753	52,253	0	665	120	515	0	0	0	53,553	1,300
Gross Expenditures	216,210	217,225	0	3,545	120	685	0	0	0	221,575	4,350
Recoveries & Allocations	(13,812)	(13,827)	0	(45)	0	0	0	0	0	(13,872)	(45)
Net Expenditure	202,398	203,398	0	3,500	120	685	0	0	0	207,703	4,305
Percent of 2024 Net Expenditure Budget			0.0%	1.7%	0.1%	0.3%	0.0%	0.0%	0.0%	2.1%	
Revenues By Type											
Federal	0	0	0	0	0	0	0	0	0	0	0
Provincial	0	0	0	0	0	0	0	0	0	0	0
Own Funds	(750)	(650)	0	0	0	0	0	0	0	(650)	0
Fees and Services	(202,948)	(202,748)	0	0	0	0	0	0	(4,305)	(207,053)	(4,305)
Fines	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total Revenue	(203,698)	(203,398)	0	0	0	0	0	0	(4,305)	(207,703)	(4,305)
Percent of 2024 Revenue Budget			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%	2.1%	
Net Requirement	(1,300)	0	0	3,500	120	685	0	0	(4,305)	0	0
Percent of 2024 Net Requirement Budget			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Full Time Equivalents (FTEs)		283.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	283.86	0.00
Percent of 2024 FTEs			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

City of Ottawa
 Infrastructure & Water Services Department
 Drinking Water Services - Operating Resource Requirement Explanatory Notes
 In Thousands (\$000)

2023 Forecast vs. Budget Variance Explanation	Surplus / (Deficit)			
	Expense	Revenue	Net	
Inflationary increase in chemical costs offset with vacancies in water distribution. Lower than anticipated debt servicing costs and water consumption.	1,000	300	1,300	
Total Surplus / (Deficit)	1,000	300	1,300	
2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
Maintain Services				
All programs include an adjustment for potential 2024 cost of living, increments and benefit adjustments.	1,720	0	1,720	0.00
Increase in operational costs related to inflation on chemicals.	2,000	0	2,000	0.00
Road cut permit fees to support operational maintenance activities.	85	0	85	0.00
Non Departmental				
Increase in Inter Departmental overhead allocation due to cost of living increase.	580	0	580	0.00
Increase in debt servicing costs.	130	0	130	0.00
Decrease in the contribution to the Water Capital Reserve Fund.	(1,015)	0	(1,015)	0.00
Total Maintain Services	3,500	0	3,500	0.00
2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
Provincial Legislated				
Non Departmental				
Increase in Inter Departmental allocations to support of the new soil legislation requirement.	50	0	50	0.00
Increase in Inter Departmental allocations to address Ontario Regulation 588/17: Asset Management Planning for Municipal Infrastructure.	70	0	70	0.00
Total Provincial Legislated	120	0	120	0.00

City of Ottawa
Infrastructure & Water Services Department
Drinking Water Services - Operating Resource Requirement Explanatory Notes
In Thousands (\$000)

2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
Growth				
Fleet operating costs for new vehicles.	170	0	170	0.00
Non Departmental				
Increase in Inter Departmental allocations to support the Water Billing operations and specification development.	320	0	320	0.00
Increase in Inter Departmental allocations to support development and implementation of standards for vertical and facilities infrastructure projects.	70	0	70	0.00
Increase in Inter Departmental allocations from Human Resources to support the Workplace Violence and Harassment Program.	125	0	125	0.00
Total Growth	685	0	685	0.00
2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
User Fees & Revenues				
See following user fee schedule for details on the specific rates.	0	(4,350)	(4,350)	0.00
Termination of the lease at 3100 Conroy Road.	0	45	45	0.00
Total User Fees & Revenues	0	(4,305)	(4,305)	0.00
Total Budget Changes	4,305	(4,305)	0	0.00

City of Ottawa
Infrastructure & Water Services Department
Wastewater Services - Operating Resource Requirement Analysis
In Thousands (\$000)

	2023 Baseline			2024 Adjustments						2024	\$ Change over 2023 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	COVID-19	Service Initiatives / Savings	User Fees & Revenues	Estimate	
Expenditures by Program											
Facilities and Treatment	36,360	35,140	0	3,530	0	110	0	0	0	38,780	3,640
Linear and Customer Service	25,765	25,765	0	1,180	120	175	0	0	0	27,240	1,475
Non Departmental	126,296	127,126	0	30	120	385	0	0	0	127,661	535
Gross Expenditure	188,421	188,031	0	4,740	240	670	0	0	0	193,681	5,650
Recoveries & Allocations	(13,980)	(13,980)	0	0	0	0	0	0	0	(13,980)	0
Revenue	(174,651)	(174,051)	(500)	0	0	0	0	0	(5,150)	(179,701)	(5,650)
Net Requirement	(210)	0	(500)	4,740	240	670	0	0	(5,150)	0	0
Expenditures by Type											
Salaries, Wages & Benefits	25,670	25,580	0	1,111	120	195	0	0	0	27,006	1,426
Overtime	967	967	0	19	0	0	0	0	0	986	19
Material & Services	28,024	27,024	0	3,200	0	90	0	0	0	30,314	3,290
Transfers/Grants/Financial Charges	98,241	99,071	0	(675)	0	0	0	0	0	98,396	(675)
Fleet Costs	2,414	2,014	0	40	0	0	0	0	0	2,054	40
Program Facility Costs	0	0	0	0	0	0	0	0	0	0	0
Other Internal Costs	33,105	33,375	0	1,045	120	385	0	0	0	34,925	1,550
Gross Expenditures	188,421	188,031	0	4,740	240	670	0	0	0	193,681	5,650
Recoveries & Allocations	(13,980)	(13,980)	0	0	0	0	0	0	0	(13,980)	0
Net Expenditure	174,441	174,051	0	4,740	240	670	0	0	0	179,701	5,650
Percent of 2024 Net Expenditure Budget			0.0%	2.7%	0.1%	0.4%	0.0%	0.0%	0.0%	3.2%	
Revenues By Type											
Federal	0	0	0	0	0	0	0	0	0	0	0
Provincial	0	0	0	0	0	0	0	0	0	0	0
Own Funds	(5,325)	(4,725)	0	0	0	0	0	0	0	(4,725)	0
Fees and Services	(169,326)	(169,326)	(500)	0	0	0	0	0	(5,150)	(174,976)	(5,650)
Fines	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total Revenue	(174,651)	(174,051)	(500)	0	0	0	0	0	(5,150)	(179,701)	(5,650)
Percent of 2024 Revenue Budget			0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%	3.2%	
Net Requirement	(210)	0	(500)	4,740	240	670	0	0	(5,150)	0	0
Percent of 2024 Net Requirement Budget			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Full Time Equivalents (FTEs)		219.50	0.00	0.00	2.95	2.00	0.00	0.00	0.00	224.45	4.95
Percent of 2024 FTEs			0.0%	0.0%	1.3%	0.9%	0.0%	0.0%	0.0%	2.3%	

City of Ottawa
Infrastructure & Water Services Department
Wastewater Services - Operating Resource Requirement Explanatory Notes
In Thousands (\$000)

2023 Forecast vs. Budget Variance Explanation	Surplus / (Deficit)			
	Expense	Revenue	Net	
Inflationary increase in chemical costs and higher than anticipated costs related to emergency response to the ice storm. Lower than anticipated debt servicing costs and no significant revenue variances.	(390)	600	210	
Total Surplus / (Deficit)	(390)	600	210	
2023 Baseline Adjustment / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
Revenue adjustment to align budget to actuals.	0	(500)	(500)	0.00
Total Adjustments to Base Budget	0	(500)	(500)	0.00
2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
Maintain Services				
All programs include an adjustment for potential 2024 cost of living, increments and benefit adjustments.	1,130	0	1,130	0.00
Increase in operational costs related to inflation on maintenance and service contracts.	1,200	0	1,200	0.00
Increase in operational costs related to inflation on chemicals.	2,000	0	2,000	0.00
Road cut permit fees to support operational maintenance activities.	340	0	340	0.00
Increase in Fleet costs related to inflation on compensation contracts, parts, fuel, contribution to capital reserve and maintenance.	40	0	40	0.00
Non Departmental				
Increase in Inter Departmental overhead allocations due to cost of living increase.	325	0	325	0.00
Increase in Inter Departmental allocations from Solid Waste due to inflation on biosolids contract.	380	0	380	0.00
Increase in debt servicing costs.	3,525	0	3,525	0.00
Decrease in the contribution to the Wastewater Capital Reserve Fund.	(4,200)	0	(4,200)	0.00
Total Maintain Services	4,740	0	4,740	0.00

City of Ottawa
Infrastructure & Water Services Department
Wastewater Services - Operating Resource Requirement Explanatory Notes
In Thousands (\$000)

2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
Provincial Legislated				
Additional permanent student positions required to address timelines in new On1Call legislation and additional volume in heavy construction periods.	120	0	120	2.95
Non Departmental				
Increase in Inter Departmental allocations to support of the new soil legislation requirement.	50	0	50	0.00
Increase in Inter Departmental allocations to address Ontario Regulation 588/17: Asset Management Planning for Municipal Infrastructure.	70	0	70	0.00
Total Provincial Legislated	240	0	240	2.95
2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
Growth				
Additional permanent sewer maintenance resource to address growth of the collection system.	85	0	85	1.00
Additional permanent instrumentation resource to ensure actuated gates, level instruments, floats and weirs are properly exercised and maintained to ensure regulatory compliance and minimize the sewer overflow to the river.	110	0	110	1.00
Fleet operating costs for new vehicles.	90	0	90	0.00
Non Departmental				
Increase in Inter Departmental allocations to support the Water Billing operations and specification development.	190	0	190	0.00
Increase in Inter Departmental allocations to support development and implementation of standards for vertical and facilities infrastructure projects.	70	0	70	0.00
Increase in Inter Departmental allocations from Human Resources to support the Workplace Violence and Harassment Program.	125	0	125	0.00
Total Growth	670	0	670	2.00

City of Ottawa
 Infrastructure & Water Services Department
 Wastewater Services - Operating Resource Requirement Explanatory Notes
 In Thousands (\$000)

2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
User Fees & Revenues				
See following user fee schedule for details on the specific rates.	0	(5,150)	(5,150)	0.00
Total User Fees & Revenues	0	(5,150)	(5,150)	0.00
Total Budget Changes	5,650	(5,650)	0	4.95

City of Ottawa
 Infrastructure & Water Services Department
 Stormwater Services - Operating Resource Requirement Analysis
 In Thousands (\$000)

	2023 Baseline			2024 Adjustments						2024	\$ Change over 2023 Budget
	Forecast	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	COVID-19	Service Initiatives / Savings	User Fees & Revenues	Estimate	
Expenditures by Program											
Stormwater Operations	13,549	14,049	0	240	0	145	0	0	0	14,434	385
Non Departmental	72,363	71,863	0	9,440	15	75	0	0	0	81,393	9,530
Gross Expenditure	85,912	85,912	0	9,680	15	220	0	0	0	95,827	9,915
Recoveries & Allocations	(3,444)	(3,444)	0	0	0	0	0	0	0	(3,444)	0
Revenue	(81,668)	(82,468)	0	0	0	0	0	0	(9,915)	(92,383)	(9,915)
Net Requirement	800	0	0	9,680	15	220	0	0	(9,915)	0	0
Expenditures by Type											
Salaries, Wages & Benefits	5,111	5,071	0	239	0	50	0	0	0	5,360	289
Overtime	23	63	0	1	0	0	0	0	0	64	1
Material & Services	2,053	2,553	0	0	0	95	0	0	0	2,648	95
Transfers/Grants/Financial Charges	58,911	57,911	0	9,290	0	0	0	0	0	67,201	9,290
Fleet Costs	250	250	0	0	0	0	0	0	0	250	0
Program Facility Costs	0	0	0	0	0	0	0	0	0	0	0
Other Internal Costs	19,564	20,064	0	150	15	75	0	0	0	20,304	240
Gross Expenditures	85,912	85,912	0	9,680	15	220	0	0	0	95,827	9,915
Recoveries & Allocations	(3,444)	(3,444)	0	0	0	0	0	0	0	(3,444)	0
Net Expenditure	82,468	82,468	0	9,680	15	220	0	0	0	92,383	9,915
Percent of 2024 Net Expenditure Budget			0.0%	11.7%	0.0%	0.3%	0.0%	0.0%	0.0%	12.0%	
Revenues By Type											
Federal	0	0	0	0	0	0	0	0	0	0	0
Provincial	(145)	(145)	0	0	0	0	0	0	0	(145)	0
Own Funds	0	0	0	0	0	0	0	0	0	0	0
Fees and Services	(81,523)	(82,323)	0	0	0	0	0	0	(9,915)	(92,238)	(9,915)
Fines	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total Revenue	(81,668)	(82,468)	0	0	0	0	0	0	(9,915)	(92,383)	(9,915)
Percent of 2024 Revenue Budget			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.0%	12.0%	
Net Requirement	800	0	0	9,680	15	220	0	0	(9,915)	0	0
Percent of 2024 Net Requirement Budget			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Full Time Equivalents (FTEs)		44.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	45.00	1.00
Percent of 2024 FTEs			0.0%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	2.3%	

City of Ottawa
 Infrastructure & Water Services Department
 Stormwater Services - Operating Resource Requirement Explanatory Notes
 In Thousands (\$000)

2023 Forecast vs. Budget Variance Explanation	Surplus / (Deficit)			
	Expense	Revenue	Net	
No significant expenditure variances to report. Revenue growth estimates not being realized.	0	(800)	(800)	
Total Surplus / (Deficit)	0	(800)	(800)	
2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
Maintain Services				
All programs include an adjustment for potential 2024 cost of living, increments and benefit adjustments.	240	0	240	0.00
Non Departmental				
Increase in Inter Departmental overhead allocations due to cost of living increases.	150	0	150	0.00
Increase in debt servicing costs.	1,210	0	1,210	0.00
Increase in the contribution to the Stormwater Capital Reserve Fund.	8,080	0	8,080	0.00
Total Maintain Services	9,680	0	9,680	0.00
2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
Provincial Legislated				
Non Departmental				
Increase in Inter Departmental allocations to support of the new soil legislation requirement.	15	0	15	0.00
Total Provincial Legislated	15	0	15	0.00

City of Ottawa
Infrastructure & Water Services Department
Stormwater Services - Operating Resource Requirement Explanatory Notes
In Thousands (\$000)

2024 Pressure Category / Explanation	Increase / (Decrease)			
	Expense	Revenue	Net 2024 Changes	FTE Impact
Growth				
Vegetation maintenance contract for Findlay Creek wetland berm.	60	0	60	0.00
Additional permanent student positions required to address water sampling and testing to meet regulatory requirements.	50	0	50	1.00
Fleet operating costs for new vehicles.	35	0	35	0.00
Non Departmental				
Increase in Inter Departmental allocations to support the Water Billing operations and specification development.	75	0	75	0.00
Total Growth	220	0	220	1.00
2024 Pressure Category / Explanation	Increase / (Decrease)			
Expense	Revenue	Net 2024 Changes	FTE Impact	
User Fees & Revenues				
See following user fee schedule for details on the specific rates.	0	(9,915)	(9,915)	0.00
Total User Fees & Revenues	0	(9,915)	(9,915)	0.00
Total Budget Changes	9,915	(9,915)	0	1.00

Capital Budget

City of Ottawa
2024 Draft Capital Budget
Environment and Climate Change Committee-Rate
In Thousands (\$000)

Service Area: Drinking Water Services											
Category	2024 Draft Capital Budget	Revenues	Tax Supported/ Dedicated Reserves	Rate Supported Reserves	Develop. Charges	Gas Tax	Debt				
							Tax/ Dedicated	Rate	Develop. Charges	Gas Tax	Total Debt
Renewal of City Assets	68,229	0	0	50,678	29	0	0	17,522	0	0	17,522
Growth	14,811	232	0	3,205	10,685	0	0	200	489	0	689
Regulatory	0	0	0	0	0	0	0	0	0	0	0
Service Enhancements	0	0	0	0	0	0	0	0	0	0	0
Total	83,040	232	0	53,883	10,714	0	0	17,722	489	0	18,211

City of Ottawa
2024 Draft Capital Budget
Service Area: Drinking Water Services
 In Thousands (\$000)

Program Information			Financial Details							
Water Meter Replacement Program			Class of Estimate: Not Applicable							
Dept:	Finance and Corporate Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various						
Reduces greenhouse gases?	No			2024 Request	5,475	Projected Yearend Unspent Bal.		12,649		
Builds climate resiliency?	No			Revenues	0	Debt				
<p>This multi-year program has been established to increase the accuracy of water metering and billing through the replacement of water meters and meter reading equipment which have passed their life expectancy. It also includes upgrades to metering and billing software due to lifecycle requirements and implementation of mobility for meter maintenance.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0			
			Rate Supported	5,475	Rate Supported Debt		0			
			Develop. Charges	0	Develop. Charges Debt		0			
			Gas Tax	0	Gas Tax Debt		0			
			Forecast	2024	2025	2026	2027			
			Authority	5,475	5,450	6,625	5,475			
			Spending Plan	5,475	5,450	6,625	5,475			
FTEs	0	0	0	0						
Operating Impact	0	0	0	0						

City of Ottawa
2024 Draft Capital Budget
Service Area: Drinking Water Services
In Thousands (\$000)

Project(s) within a Program Information			\$000's
908076	Large Water Meters Changeout Program	Class of Estimate: Not Applicable	2,300
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2027	
<p>Ongoing replacement of commercial high volume water meters which have passed their life expectancy with new technology offering increased accuracy and reduced maintenance costs. Large volume water meters have a shorter useful lifecycle, requiring maintenance every two to eight years due to the high volume of water causing wear and tear on mechanical components of the meter. New Meters will reduce maintenance costs, increase accuracy, and provide consistent revenues.</p>			
908908	Small Water Meters Changeout Program	Class of Estimate: Not Applicable	100
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2027	
<p>Funding is required to replace a growing number of residential water meters which have passed their life expectancy of 20 years. Aging water meters will under record water consumption, resulting in loss of revenue. New meters offer improved accuracy as well as improved ability for tracking of leaks.</p>			
908909	Advanced Metering Infrastructure (AMI) Changeout Program	Class of Estimate: Not Applicable	3,025
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>Replacement of components of the Automated Meter Reading Infrastructure system, implemented in 2011, which are approaching the end of life. Components of the system will be replaced with newer prevailing technologies that maintain automated meter reading operational requirements. New estimated year of completion 2030.</p>			

City of Ottawa
2024 Draft Capital Budget
Service Area: Drinking Water Services
 In Thousands (\$000)

Project(s) within a Program Information			\$000's
908996	Meter Service Mobility	Class of Estimate: Not Applicable	50
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2023	
<p>Funding is required for meter service mobility equipment, hardware, and software. Mobilization of the meter servicing unit will will reduce duplication of efforts through the elimination of paper work orders, and streamline the data entry process. It will also decentralize the location of staff; allowing efficient route planning which reduces time spent on the road, enabling staff to complete more work orders in less time. Overall, this will improve the client experience and decrease service wait times.</p> <p>New estimated year of completion 2024.</p>			

City of Ottawa
2024 Draft Capital Budget
Service Area: Drinking Water Services
 In Thousands (\$000)

Program Information			Financial Details				
Water Distribution Systems			Class of Estimate: D) Conceptual				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request		6,943	Projected Yearend Unspent Bal.		0
Builds climate resiliency?	No	Revenues	0	Debt			
<p>The City of Ottawa operates a water distribution system consisting of approximately 3,200 km of piping, 21,000 fire hydrants, over 50,000 valves and 245,000 water service meters. The value of this buried infrastructure is over \$12.5 billion. This program is aimed at addressing annual preventive and corrective maintenance for the City's existing water distribution network in order to provide reliable operation of the network components, to ensure drinking water quality is maintained throughout the water distribution network and to preserve and extend the life of the infrastructure to prevent failures requiring heavier and costlier reconstruction strategies.</p> <p>The program is focused on:</p> <ul style="list-style-type: none"> - Proactive lifecycle renewal and rehabilitation projects; - Level of service initiatives; - System improvements and optimization; - Asset lifecycle upgrades and rehabilitation to support growth demand. 		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt	0		
		Rate Supported	6,943	Rate Supported Debt	0		
		Develop. Charges	0	Develop. Charges Debt	0		
		Gas Tax	0	Gas Tax Debt	0		
				Forecast	2024	2025	2026
		Authority	6,943	4,090	4,140	4,500	
		Spending Plan	3,472	4,128	4,686	4,310	
		FTEs	0	0	0	0	
		Operating Impact	0	0	0	0	

City of Ottawa
2024 Draft Capital Budget
Service Area: Drinking Water Services
In Thousands (\$000)

Project(s) within a Program Information			\$000's
911318 2024 Lead Pipe Replacement Program		Class of Estimate: D) Conceptual	
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The City produces and distributes drinking water that is lead-free. However, lead can enter drinking water through exposure to existing lead service lines. As these services exist within public right-of-way and private property, the responsibility for these services is a shared City/property owner responsibility. The City replaces lead services within the public right-of-way as part of the Integrated Watermain Rehabilitation Program. This program provides the funds to cover the costs of the City's portion of Lead Service Replacement (outside of the integrated program). Customers are responsible for the cost of replacement on private property. The program offers residents deferred payment options on the tax bill. Production and distribution costs for public information bulletins are provided by this account.</p>			
911319 2024 Cathodic Protection Program		Class of Estimate: D) Conceptual	
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The water distribution system consists of over 3,230 km of watermains. The Cathodic Protection program is a proactive program to extend the life of metallic watermains that are showing signs of premature corrosion failure. Anodes are installed onto the pipe network to prolong its useful life by acting as a sacrificial material, thereby protecting watermains from corrosion. Key elements include condition assessment, installation, monitoring and testing of the anodes to measure their effectiveness and predict lifecycle expectations.</p>			
911320 2024 Water Distribution System Improv.		Class of Estimate: D) Conceptual	
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This program involves a number of smaller scale improvements including water loss control initiatives, access improvements, hydrant and valve lifecycle replacements, installation of flusher units, a watermain cleaning program, watermain rehab on dead-end streets, water distribution system security and system identification improvements for hydrants and valves. These initiatives ensure that the watermain infrastructure (watermains and appurtenances) is replaced and/or upgraded when normal life expectancy is surpassed and to ensure the system performs in accordance with licencing requirements as set out in the Drinking Water Quality Management Standard (DWQMS).</p>			

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Project(s) within a Program Information			\$000's
911321	2024 Ops Condition Assess Critical Link	Class of Estimate: D) Conceptual	2,793
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This annual program will provide the funding to plan, prepare, and conduct condition assessment investigations of the water distribution system's key transmission mains. These are the backbone of the water system and are critical to the continued reliability of service to large portions of the urban population. This may also fund risk mitigation measures required while the watermains are being inspected. As the City's backbone watermain infrastructure continues to age this condition information is important to guide smart infrastructure investments and maintain the continued reliability of the drinking water system.</p>			

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Program Information			Financial Details				
Water Pumping Stations			Class of Estimate: D) Conceptual				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request		16,284	Projected Yearend Unspent Bal.		23,863
Builds climate resiliency?	No	Revenues	0	Debt			
<p>The Water Pumping Stations program provides for lifecycle renewal and replacement to sustain the continuous and reliable operation of the water pumping stations which are critical in distributing drinking water to the City's customers. Detailed scope of work for specific projects extends to a wide assortment of work, and includes retrofitting, rehabilitating and replacing equipment and assets due to age or condition; structural repairs; upgrades to improve functionality and increase redundancy; Health & Safety retrofits and specialized inspections.</p> <p>Detailed information and costs associated with specific components and projects are provided following this program summary.</p> <p>Forecasts are based on anticipated needs that will be detailed in future budget submissions.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
		Rate Supported	16,284	Rate Supported Debt		0	
		Develop. Charges	0	Develop. Charges Debt		0	
		Gas Tax	0	Gas Tax Debt		0	
		Forecast		2024	2025	2026	2027
Authority		16,284	7,500	3,910	5,000		
Spending Plan		8,142	8,635	7,462	5,173		
FTEs		0	0	0	0		
Operating Impact		0	0	0	0		

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Project(s) within a Program Information			\$000's
906664	Hurdman Bridge PS Renewal	Class of Estimate: B) Design	10,600
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2024	
<p>The Hurdman Bridge Drinking Water Pump Station is located just north of the Hurdman Transit Station, adjacent to the CN/CP rail line, between Riverside Drive and the Rideau River. Constructed in the early 1970s, the existing Hurdman PS is used to boost water from Zone 1 W to eastern water zones of the City. Due to age, much of the equipment at the Hurdman Bridge Pumping Station is obsolete or at the end of its useful life. The intent of this project is to refurbish the entire station and site to bring it up to current City Standards, meet current and future pumping demands and implement a standby power system at the station. Yard configuration, building repairs and refurbishment, and replacement of the entire electrical distribution system are required and there is a need to increase water transfer pumping capacity for Zone 2C. In addition, the standby power system increases the resiliency to extended power outages. Project design is underway, funding is for construction top-up.</p>			
909974	Lemieux High Lift PS Structural Upgrades	Class of Estimate: D) Conceptual	4,914
Category: Renewal of City Assets	Ward: 7	Year of Completion: 2023	
<p>This project included a functional design for rehabilitation of the process mechanical equipment, below grade structure, and to consider future expansion of the high lift pumping capacity. The 2024 construction portion of this project is for the implementation of the recommendations from the options analysis and functional design.</p>			

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Program Information			Financial Details					
Water Storage Tanks & Reservoirs			Class of Estimate: D) Conceptual					
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No			2024 Request	7,938	Projected Yearend Unspent Bal.		0
Builds climate resiliency?	No			Revenues	0	Debt		
<p>The Water Storage Tanks & Reservoirs program provides for lifecycle renewal and replacement to sustain the continuous and reliable operation of the elevated tank and reservoir facilities which are critical in distributing drinking water to the City's customers. Detailed scope of work for specific projects extends to a wide assortment of work, and includes retrofitting, rehabilitating and replacing equipment and assets due to age or condition; structural repairs; Health & Safety retrofits and specialized inspections.</p> <p>Detailed information and costs associated with specific components and projects are provided following this program summary.</p> <p>Forecasts are based on anticipated needs that will be detailed in future budget submissions.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
			Rate Supported	7,938	Rate Supported Debt		0	
			Develop. Charges	0	Develop. Charges Debt		0	
			Gas Tax	0	Gas Tax Debt		0	
			Forecast	2024	2025	2026	2027	
Authority	7,938	6,354	4,317	0				
Spending Plan	3,969	5,558	5,652	2,566				
FTEs	0	0	0	0				
Operating Impact	0	0	0	0				

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Program Information			Financial Details					
Water Systems General-Regulatory			Class of Estimate: C) Planning					
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various					
Reduces greenhouse gases?	No	2024 Request		150	Projected Yearend Unspent Bal.		0	
Builds climate resiliency?	No	Revenues	0	Debt				
This program is aimed at addressing matters that are common to Drinking Water Services, including Water Distribution, Water Production, and Water Quality Assurance. These programs cover operational issues, legislative requirements, system planning, and other strategic directions such as environmental programs.		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt	0			
		Rate Supported	150	Rate Supported Debt	0			
		Develop. Charges	0	Develop. Charges Debt	0			
		Gas Tax	0	Gas Tax Debt	0			
		Forecast	2024	2025	2026	2027		
		Authority	150	150	175	175		
		Spending Plan	75	120	163	170		
FTEs	0	0	0	0				
Operating Impact	0	0	0	0				

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Project(s) within a Program Information			\$000's
911312	2024 Water Efficiency	Class of Estimate: C) Planning	150
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>Develop water efficiency programs to provide water demand management, effective use of resources, delay or eliminate the need to expand system capacity.</p>			

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Program Information			Financial Details						
Water Systems General-Renewal			Class of Estimate: C) Planning						
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various					
Reduces greenhouse gases?	No			2024 Request	785	Projected Yearend Unspent Bal.		84	
Builds climate resiliency?	No			Revenues	0	Debt			
<p>The Water Systems General - Renewal program addresses the annual renewal requirements for the City's drinking water infrastructure. The program is aimed at addressing matters that are common to Drinking Water Services, including Water Distribution, Water Production, and Water Quality Assurance. These programs cover operational issues, legislative requirements, system planning, and other strategic directions with the goal of extending the life of drinking water infrastructure, providing a continuous supply of potable water, preventing failures and ensuring that drinking water quality is maintained throughout.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt			0	
			Rate Supported	785	Rate Supported Debt			0	
			Develop. Charges	0	Develop. Charges Debt			0	
			Gas Tax	0	Gas Tax Debt			0	
			Forecast	2024	2025	2026	2027		
			Authority	785	100	100	150		
			Spending Plan	785	50	80	125		
FTEs	0	0	0	0					
Operating Impact	0	0	0	0					

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Project(s) within a Program Information			\$000's
910529	New Vehicles Drinking Water 2022	Class of Estimate: C) Planning	785
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2024	
<p>A total of 6 new vehicles are required for operations and maintenance related activities for Drinking Water Services.</p>			

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Program Information			Financial Details					
Water System Rehabilitation			Class of Estimate: Not Applicable					
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No			2024 Request	15,270	Projected Yearend Unspent Bal.		530
Builds climate resiliency?	No			Revenues	0	Debt		
<p>The Water System Rehabilitation Program addresses the annual rehabilitation requirements for the City's piped water network: to extend the life of the infrastructure, provide continued supply of potable water, prevent failures requiring more extensive reconstruction, and ensure drinking water quality is maintained throughout the water distribution network.</p> <p>The program is focused on:</p> <ul style="list-style-type: none"> • Proactive lifecycle renewal and rehabilitation projects • Level of service initiatives • System improvements and optimization • Miscellaneous upgrades and rehabilitation to support growth demand • Miscellaneous local repairs <p>Program funding requirements to support renewal needs are defined in the Long Range Financial Plan.</p> <p>Forecasts are based on bulk allocations that will be detailed in future budget submissions. The funding requests for watermain costs coordinated with roadway, wastewater or stormwater rehabilitation are included within the Integrated Rehabilitation Programs. Detailed information and costs associated with specific stand alone (non-integrated) components and projects directly follow this program summary page.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt	0		
			Rate Supported	2,770	Rate Supported Debt	12,500		
			Develop. Charges	0	Develop. Charges Debt	0		
			Gas Tax	0	Gas Tax Debt	0		
			Forecast	2024	2025	2026	2027	
			Authority	15,270	13,540	18,175	15,045	
Spending Plan	7,635	11,351	16,204	15,683				
FTEs	0	0	0	0				
Operating Impact	0	0	0	0				

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Project(s) within a Program Information			\$000's
910894 Prince of Wales (Green Valley - DE)			Class of Estimate: A) Pre-Tender
Category: Renewal of City Assets	Ward: 16	Year of Completion: 2028	
<p>The watermain in Prince of Wales Dr from Green Valley Cres to 300m north requires rehabilitation due to a high break rate. Surface work will be limited to reinstatement of affected areas. The funding request will provide for construction and other project related costs.</p>			
911303 2024 Water System Improvements			Class of Estimate: D) Conceptual
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>To meet long range watermain replacement goals, this program provides funding for watermain replacement in areas where there are no sewer or roadway needs. Funding is also used to implement measures to reduce system vulnerability to critical service areas. Measures could include, but are not limited to, watermains, valves, pumping stations, pumps, storage, backup power, other infrastructure and appurtenances, as required, to improve system reliability. The funding request may include design, construction and other related project costs.</p>			
911304 2024 WM Transmission/Distribution Rehab			Class of Estimate: D) Conceptual
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The City of Ottawa's water distribution system consists of over 3,000 km of watermains, of which more than 200km are classified as transmission watermains.</p> <p>This program provides funding for improvements identified by the transmission watermain condition assessment program: rehabilitation or replacement of defective pipes or appurtenances as a result of corrosive attack, structural deficiencies, and erosion or soil movement. In addition, this program will allow for construction of various watermain links and appurtenances in the transmission and distribution systems, as well as repairs and cathodic protection to improve system flexibility and reliability.</p>			

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Project(s) within a Program Information			\$000's
911305	2024 Water Structures - Inspections	Class of Estimate: D) Conceptual	40
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This program provides the authority for the regulatory inspections/ follow-up assessment of the bridges carrying watermains and connecting water facilities.</p>			

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Program Information			Financial Details				
Water Treatment - Renewal			Class of Estimate: D) Conceptual				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request		15,117	Projected Yearend Unspent Bal.		1,221
Builds climate resiliency?	No	Revenues	0	Debt			
<p>The Water Treatment program provides for lifecycle renewal and replacement to sustain the continuous and reliable operation of the City's two Water Purification Plants. In order to provide continued uninterrupted safe supply of potable water, it is necessary to invest in the ongoing rehabilitation and renewal of these assets. Funding is required to preserve and extend the life of the infrastructure, and to meet provincial and federal regulation requirements. Detailed scope of work for specific projects extends to a wide assortment of work, and includes retrofitting, rehabilitating and replacing equipment and assets due to age or condition; structural repairs; upgrades to improve functionality and increase redundancy; Health & Safety retrofits and specialized inspections.</p> <p>Detailed information and costs associated with specific components and projects are provided following this program summary.</p> <p>Forecasts are based on anticipated needs that will be detailed in future budget submissions.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
		Rate Supported	10,095	Rate Supported Debt		5,022	
		Develop. Charges	0	Develop. Charges Debt		0	
		Gas Tax	0	Gas Tax Debt		0	
		Forecast	2024	2025	2026	2027	
Authority	15,117	15,765	10,021	18,500			
Spending Plan	7,484	12,690	12,849	15,416			
FTEs	0	0	0	0			
Operating Impact	0	0	0	0			

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Project(s) within a Program Information			\$000's
910251	Britannia High Voltage Project	Class of Estimate: D) Conceptual	2,677
Category: Renewal of City Assets	Ward: 7	Year of Completion: 2023	
<p>Install direct bore through Mud Lake from the demarcation point to the Britannia Water Purification Plant to install two new circuits for the main electrical service. The incoming electrical cables to Britannia Water Purification Plant are over 60 years old and are approaching their end of life. This project includes a functional design and options analysis (which is ongoing), detailed design (2024 funding request) and construction (future funding request).</p>			
910674	Lemieux MCC-3M and HLE1&2 Motor Replacements	Class of Estimate: D) Conceptual	3,760
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2024	
<p>The scope of this project is to replace the aging and obsolete medium voltage motor control centre MCC-3M, associated cables, PLC field wiring and PLC including processor, modules, communications, etc. Project also includes replacement of the high lift electrical pump 1 and 2 motors and all associated equipment and cabling. High lift electrical pump 1 motor is to be replaced with a variable frequency drive for increased reliability and operations. Project design is underway, funding is for construction.</p>			
910801	Lemieux Expansion Joint Rehab	Class of Estimate: D) Conceptual	800
Category: Renewal of City Assets	Ward: 15	Year of Completion: 2024	
<p>Lemieux Island Basin #4 and #5 inlet sluice gates, mixing chamber drain gates, and two valves per basin require replacement. The gates are leaking and binding during annual maintenance. To complete the replacement of the valves, a portion of the roof will need to be removed to gain access using a mobile crane.</p>			

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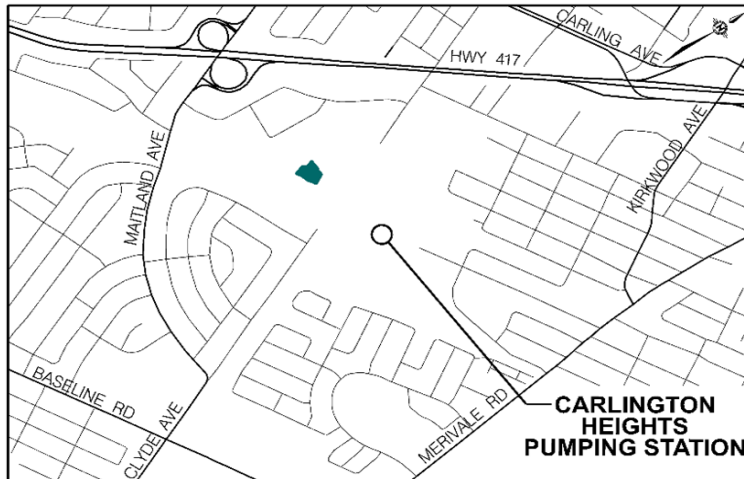
Project(s) within a Program Information			\$000's
911314	2024 DWS Capitalized Maintenance	Class of Estimate: D) Conceptual	1,400
Category: Renewal of City Assets	Ward: 07	Year of Completion: 2025	
<p>The objective of this program is to manage the capitalized maintenance costs of the City's drinking water treatment assets.</p>			

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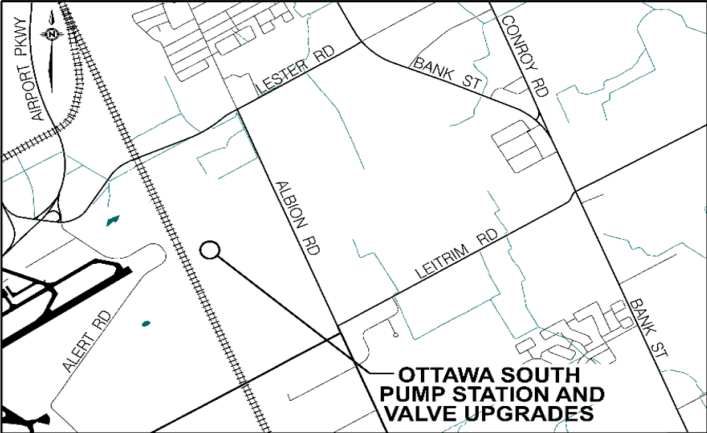
Project Information			Financial Details					
910396 Geoscience Studies			Class of Estimate: Not Applicable					
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2024				
Reduces greenhouse gases?		No	2024 Request		267	Projected Yearend Unspent Bal.		524
Builds climate resiliency?		Yes - Minor Contribution	Revenues	0	Debt			
<p>This capital account is to support the City's groundwater management programs and other programs related to geoscience. This budget request is to fund studies to address: known problems related to groundwater and geological hazards; to characterize groundwater resources and the local geological setting in order to support rural growth; to assess existing well water supplies, private wastewater disposal, public health and environmental matters in villages and privately serviced enclaves within the Urban Area; and to address geoscience issues affecting public safety.</p> <p>Studies supported through this project may address risks associated with low water conditions (to groundwater), increased precipitation volumes (to unstable slopes), or other climate hazards.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
			Rate Supported	238	Rate Supported Debt		0	
			Develop. Charges	29	Develop. Charges Debt		0	
			Gas Tax	0	Gas Tax Debt		0	
			Forecast		2024	2025	2026	2027
Authority			267	276	281	288		
Spending Plan			791	276	281	288		
FTEs			0	0	0	0		
Operating Impact			0	0	0	0		

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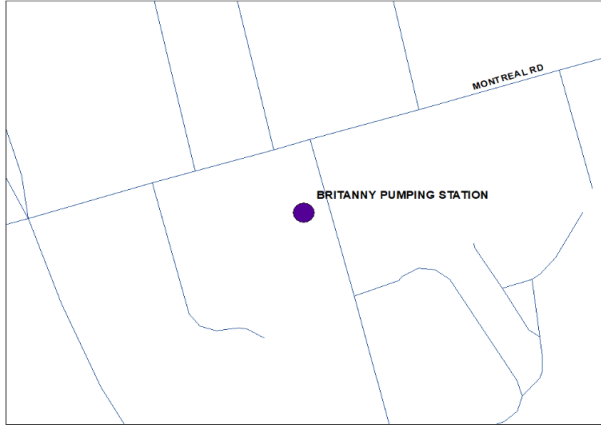
Project Information			Financial Details			
900631 Carlington Heights Pumping Stn Expansion			Class of Estimate: A) Pre-Tender			
Dept: Infrastructure & Water Services Department	Category: Growth	Ward 16	Year of Completion: 2025			
Reduces greenhouse gases?	No	2024 Request	1,236	Projected Yearend Unspent Bal.		14,255
Builds climate resiliency?	Yes - Minor Contribution	Revenues	0	Debt		
<p>This project involves the construction of a new drinking water pump station at the site of the existing Carlington Heights Pumping Station. The new station will be called the Morisset Avenue Pumping Station. The scope of work also includes decommissioning of the existing station, and various on-site watermains. This request is needed to supplement the existing authority for construction of the project, based on the most current estimate. The project is projected to be constructed starting in 2024.</p> <p>Increased capacity and back-up power for drinking water pumping stations builds resiliency to increased demands from low water conditions, and increased power outages from extreme weather.</p>	Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
	Rate Supported Develop. Charges	890	Rate Supported Debt		0	
	Gas Tax	346	Develop. Charges Debt		0	
		0	Gas Tax Debt		0	
	Forecast	2024	2025	2026	2027	
	Authority	1,236	0	0	0	
	Spending Plan	10,618	4,371	502	0	
	FTEs	0	0	0	0	
	Operating Impact	0	0	0	0	



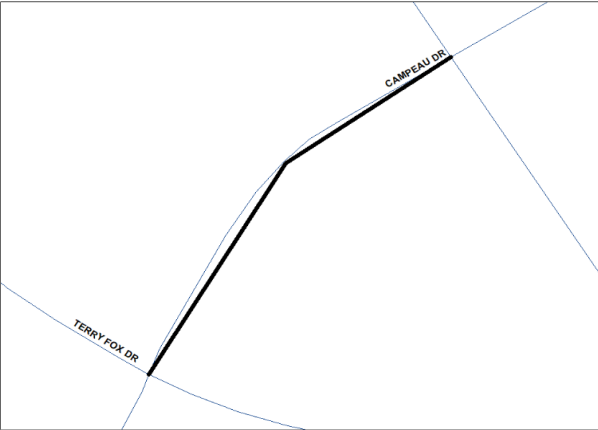
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Project Information			Financial Details				
902206 Ottawa South Pumping Station Upgrade			Class of Estimate: A) Pre-Tender				
Dept: Infrastructure & Water Services Department	Category: Growth	Ward 10	Year of Completion: 2026				
Reduces greenhouse gases?	No	2024 Request	1,751	Projected Yearend Unspent Bal.			15,085
Builds climate resiliency?	Yes - Minor Contribution	Revenues	0	Debt			
<p>This project was identified in the Infrastructure Master Plan and is needed to provide sufficient drinking water pumping capacity to meet the needs of the South Urban Community and the Ottawa Airport. This budget request is to supplement existing authority for construction based on revised cost estimates. The project is projected to be constructed starting in 2024.</p> <p>Increased capacity and back-up power for drinking water pumping stations builds resiliency to increased demands from low water conditions, and increased power outages from extreme weather.</p>	Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0		
	Rate Supported	858	Rate Supported Debt		0		
	Develop. Charges	534	Develop. Charges Debt		359		
	Gas Tax	0	Gas Tax Debt		0		
	Forecast	2024	2025	2026	2027		
	Authority	1,751	0	0	0		
	Spending Plan	10,876	5,525	435	0		
	FTEs	0	0	0	0		
	Operating Impact	0	0	0	0		
	 <p>OTTAWA SOUTH PUMP STATION AND VALVE UPGRADES</p>						

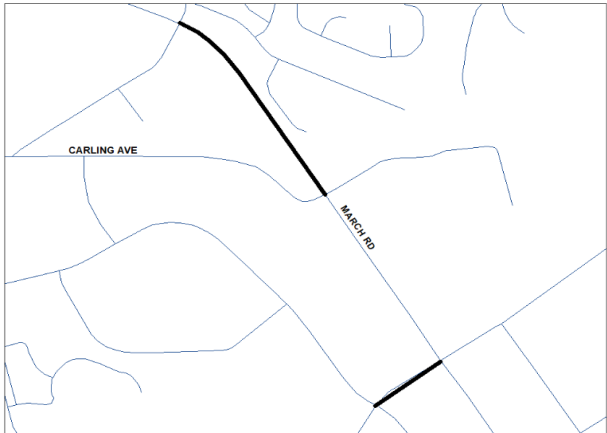
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Project Information			Financial Details				
903295 Brittany Pumping Station			Class of Estimate: A) Pre-Tender				
Dept:	Infrastructure & Water Services Department	Category: Growth	Ward 13	Year of Completion: 2023			
Reduces greenhouse gases?	No	2024 Request		309	Projected Yearend Unspent Bal.		1,412
Builds climate resiliency?	Yes - Minor Contribution	Revenues	0	Debt			
<p>This capital account covers the cost of upgrades to the drinking water pumping facilities serving the Montreal Road pressure zone, including the full replacement of the Brittany Drive Booster Station. The replacement of the station is needed to support new growth (Canada Lands former CFB Rockcliffe lands redevelopment) and improve the reliability of water supply to the pressure zone. In addition, the project included upgrades to stand-by power at the Montreal Road Pump Station. The construction of the station is nearing completion, however additional funds are needed to cover the costs related to supply chain issues that are beyond the contractor's control.</p> <p>Increased capacity and back-up power for drinking water pumping stations builds resiliency to increased demands from low water conditions, and increased power outages from extreme weather.</p>	Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0		
	Rate Supported Develop. Charges	79	Rate Supported Debt		100		
	Gas Tax	0	Develop. Charges Debt		130		
		0	Gas Tax Debt		0		
	Forecast	2024	2025	2026	2027		
	Authority	309	0	0	0	0	
	Spending Plan	1,055	605	62	0	0	
FTEs	0	0	0	0	0		
Operating Impact	0	0	0	0	0		
							


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Project Information			Financial Details				
904916 Kanata West Feedermain			Class of Estimate: D) Conceptual				
Dept: Infrastructure & Water Services Department	Category: Growth	Ward 4	Year of Completion: 2024				
Reduces greenhouse gases?	No	2024 Request	5,088	Projected Yearend Unspent Bal.		2,898	
Builds climate resiliency?	No	Revenues	0	Debt			
This project was identified in the Infrastructure Master Plan and is needed to improve drinking water transmission capacity in the West Urban Community. The project is being implemented in Phases in coordination with development. This budget request is to supplement existing authority for design and construction of the 2nd phase of the project.		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt	0		
		Rate Supported Develop. Charges	409	Rate Supported Debt	100		
		Gas Tax	0	Gas Tax Debt	0		
		Forecast	2024	2025	2026	2027	
		Authority	5,088	0	0	0	0
		Spending Plan	3,500	3,898	588	0	
		FTEs	0	0	0	0	
		Operating Impact	0	0	0	0	
							

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Project Information			Financial Details					
904982 Zone 2W West March Rd 406 to 610 Upgrade			Class of Estimate: C) Planning					
Dept:	Infrastructure & Water Services Department	Category: Growth	Ward 4	Year of Completion: 2024				
Reduces greenhouse gases?	No		2024 Request	4,776	Projected Yearend Unspent Bal.		600	
Builds climate resiliency?	No		Revenues	0	Debt			
This project was identified in the Infrastructure Master Plan and involves short watermain upgrades at three locations to improve drinking water transmission capacity to the north and west areas of Kanata. This budget request is to cover the design and construction of the project. The funding includes a \$46K contribution to Public Art.			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
			Rate Supported	478	Rate Supported Debt		0	
			Develop. Charges	4,298	Develop. Charges Debt		0	
			Gas Tax	0	Gas Tax Debt		0	
			Forecast		2024	2025	2026	2027
			Authority	4,776	0	0	0	
Spending Plan	3,376	2,000	0	0				
FTEs	0	0	0	0				
Operating Impact	0	0	0	0				
								

City of Ottawa
2024 Draft Capital Budget
Service Area: Drinking Water Services
In Thousands (\$000)

Project Information			Financial Details				
907100 Carp Well Capacity Increase			Class of Estimate: C) Planning				
Dept:	Infrastructure & Water Services Department	Category: Growth	Ward 5	Year of Completion: 2025			
Reduces greenhouse gases?		No	2024 Request	515	Projected Yearend Unspent Bal.		1,037
Builds climate resiliency?		Yes - Minor Contribution	Revenues	232	Debt		
<p>This capital account is to cover the costs of well system improvements to the City's well system that supplies water to the Village of Carp to address both growth and renewal needs. This 2024 budget request is for interim upgrades including generator replacement and modifications to the drinking water facility operation process including existing wells to accommodate development in the Village and Carp Airport.</p> <p>Increased well capacity and back-up power help reduce climate risks from power outages and increased water demand in low water conditions.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt	0	
			Rate Supported	283	Rate Supported Debt	0	
			Develop. Charges	0	Develop. Charges Debt	0	
			Gas Tax	0	Gas Tax Debt	0	
			Forecast	2024	2025	2026	2027
Authority	515	0	0	0			
Spending Plan	1,115	437	0	0			
FTEs	0	0	0	0			
Operating Impact	0	0	0	0			
							

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Service Area: Drinking Water Services
 In Thousands (\$000)

Project Information			Financial Details					
910900 2023 Off Site Reliability Links			Class of Estimate: Not Applicable					
Dept:	Infrastructure & Water Services Department	Category: Growth	Ward: CW	Year of Completion: 2025				
Reduces greenhouse gases?		No	2024 Request		516	Projected Yearend Unspent Bal.		170
Builds climate resiliency?		Yes - Minor Contribution	Revenues	0	Debt			
<p>This budget request is to cover minor off-site watermain connections needed to improve the reliability of water supply to development areas.</p> <p>Reliability links may provide redundancy of supply to protect against power failure to pump stations.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
			Rate Supported	52	Rate Supported Debt		0	
			Develop. Charges	464	Develop. Charges Debt		0	
			Gas Tax	0	Gas Tax Debt		0	
			Forecast		2024	2025	2026	2027
			Authority	516	530	541	552	
			Spending Plan	686	530	541	552	
			FTEs	0	0	0	0	
			Operating Impact	0	0	0	0	
			910902 2023 Rural Servicing Strategy			Class of Estimate: Not Applicable		
Dept:	Infrastructure & Water Services Department	Category: Growth	Ward: CW	Year of Completion: 2025				
Reduces greenhouse gases?		No	2024 Request		104	Projected Yearend Unspent Bal.		0
Builds climate resiliency?		Yes - Minor Contribution	Revenues	0	Debt			
<p>This capital account is intended to support the City's Rural Servicing Strategy and fund studies needed to promote safe and sustainable water supply and wastewater disposal for rural use. This includes Source Water Protection studies and activities, which are linked to servicing the rural area through policies in the Source Protection Plans (Mississippi-Rideau and Raisin-South Nation). Available groundwater studies and geoscience data will be leveraged to provide technical direction on private and municipal servicing within the rural planning context. The rural area has a variety of servicing arrangements, and these are regularly reviewed for sustainability and future growth. This account also covers periodic review of policies and guidelines that support the goals of the Rural Servicing Strategy.</p> <p>This project has a minor contribution to reducing climate risks associated with potential drought conditions and changing groundwater conditions resulting from variations in rainfall patterns.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
			Rate Supported	52	Rate Supported Debt		0	
			Develop. Charges	52	Develop. Charges Debt		0	
			Gas Tax	0	Gas Tax Debt		0	
			Forecast		2024	2025	2026	2027
			Authority	104	107	271	276	
			Spending Plan	104	107	271	276	
			FTEs	0	0	0	0	
			Operating Impact	0	0	0	0	

City of Ottawa
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Service Area: Drinking Water Services
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Project Information			Financial Details						
910903	2023 Water & Wastewater Studies		Class of Estimate:		Not Applicable				
Dept:	Infrastructure & Water Services Department	Category: Growth	Ward: CW		Year of Completion: 2025				
Reduces greenhouse gases?		No	2024 Request		516	Projected Yearend Unspent Bal.		529	
Builds climate resiliency?		Yes - Minor Contribution	Revenues		0	Debt			
<p>This capital account is intended to support various studies related to the planning of growth-driven water and wastewater infrastructure and related aspects of public infrastructure servicing. This includes technical studies, functional design work, and Class Environmental assessments.</p> <p>Studies may be used to address climate risks from increased precipitation volume and intensity and extreme heat and drought.</p>			Tax Supported/ Dedicated		0	Tax Supported/ Dedicated Debt		0	
			Rate Supported		104	Rate Supported Debt		0	
			Develop. Charges		412	Develop. Charges Debt		0	
			Gas Tax		0	Gas Tax Debt		0	
			Forecast		2024	2025	2026	2027	
			Authority		516	530	541	292	
			Spending Plan		845	730	541	292	
FTEs		0	0	0	0				
Operating Impact		0	0	0	0				

City of Ottawa
2024 Draft Capital Budget
Environment and Climate Change Committee-Rate
In Thousands (\$000)

Service Area: Integrated Water & Wastewater											
Category	2024 Draft Capital Budget	Revenues	Tax Supported/ Dedicated Reserves	Rate Supported Reserves	Develop. Charges	Gas Tax	Debt				
							Tax/ Dedicated	Rate	Develop. Charges	Gas Tax	Total Debt
Renewal of City Assets	21,390	0	0	11,290	0	0	0	10,100	0	0	10,100
Growth	0	0	0	0	0	0	0	0	0	0	0
Regulatory	0	0	0	0	0	0	0	0	0	0	0
Service Enhancements	0	0	0	0	0	0	0	0	0	0	0
Total	21,390	0	0	11,290	0	0	0	10,100	0	0	10,100

City of Ottawa
2024 Draft Capital Budget
Service Area: Integrated Water & Wastewater
 In Thousands (\$000)

Program Information		Financial Details				
Integrated Water & Wastewater		Class of Estimate: Not Applicable				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various			
Reduces greenhouse gases?	No	2024 Request	17,150	Projected Yearend Unspent Bal. 5,000		
Builds climate resiliency?	Yes - Minor Contribution	Revenues	0	Debt		
<p>The Integrated Rate Program includes rehabilitation of more than one asset class (sanitary sewers, storm drainage, and watermains) that are coordinated within a single project. The program is aimed at renewing and replacing the infrastructure assets in order to provide continued service and prevent failures.</p> <p>The program is comprised of:</p> <ul style="list-style-type: none"> • Functional and preliminary designs. • Lifecycle renewal: renewal, rehabilitation and replacements for deterioration. • Coordinated renewal: schedule coordination (escalation or deferral) between asset classes and with other asset classes. • Level of service enhancements: flooding improvements and system optimization. • Upgrades and rehabilitation to support growth and miscellaneous localized repairs. <p>Renewing sanitary, storm and/or combined sewers builds resiliency to the increased flood risks expected with climate change. Projects in this program reduce the risk of localized flooding by managing surface water and preventing private property flooding.</p> <p>Forecasts are based on bulk allocations that will be detailed in future budget submissions. Detailed information and costs associated with specific components and projects are provided following this program summary.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt	0	
		Rate Supported	7,050	Rate Supported Debt	10,100	
		Develop. Charges	0	Develop. Charges Debt	0	
		Gas Tax	0	Gas Tax Debt	0	
		Forecast	2024	2025	2026	2027
		Authority	17,150	18,900	20,250	24,100
		Spending Plan	8,575	14,595	19,225	21,905
FTEs	0	0	0	0		
Operating Impact	0	0	0	0		

City of Ottawa
2024 Draft Capital Budget
Service Area: Integrated Water & Wastewater
In Thousands (\$000)

Project(s) within a Program Information			\$000's
910887	2023 Easement Agreements Updates	Class of Estimate: Not Applicable	3,000
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2025	
<p>Various existing City underground watermain and sewer assets are currently located within non City owned property. This budget request will provide funding to negotiate new easements and re-negotiate expired or soon to expire easement agreements and acquire new easements for the existing or proposed sewers and watermains.</p>			
911285	2024 Hydraulic Structures	Class of Estimate: C) Planning	750
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The authority will provide for the rehabilitation of the City's sewer outfalls, access structures and other hydraulic features. The funding is for all project related costs which may include but is not limited to studies, design, construction and property acquisition.</p>			
911286	2024 Sewer Repairs / Improvements	Class of Estimate: C) Planning	8,000
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>A number of locations have been identified to resolve sewer infrastructure and surface flooding problems. Work could entail both trenchless and conventional spot repairs, as well as various hydraulic improvements such as; installing catch basins, re-profiling driveways and road grading. The authority provides for the design, construction and all associated costs for various drainage and sewer improvements.</p>			

City of Ottawa
2024 Draft Capital Budget
Service Area: Integrated Water & Wastewater
In Thousands (\$000)

Project(s) within a Program Information			\$000's
911287	2024 Sewer Trenchless Rehab	Class of Estimate: C) Planning	4,000
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This project provides for relining of sewers, access structures, and spot repairs at various locations. The work will improve: structural integrity, hydraulic performance, reduce basement flooding, reduce extraneous flows, and improve the overall operation of the system.</p>			
911348	2024 Sewer & Water Inspect and Data Man.	Class of Estimate: C) Planning	1,400
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This project provides funding to ensure the sustained performance of the City's wastewater, stormwater and water production and distribution systems in support of the capital renewal program and operational requirements. The funding is primarily focused on the collection of, and maintenance of, the condition and performance of the City's wastewater, stormwater and water networks. The Inspection and Data Management program monitors the conditions of piped networks, monitors the performance of pipes and systems, confirms flow conditions and can identify defects within the various water networks.</p>			

City of Ottawa
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Service Area: Integrated Water & Wastewater
 In Thousands (\$000)

Program Information			Financial Details					
Water Technology Improvements			Class of Estimate: C) Planning					
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request		4,240	Projected Yearend Unspent Bal.		0	
Builds climate resiliency?	No	Revenues	0	Debt				
The Technology Improvements Program encompasses various projects and initiatives related to the implementation of asset management processes (Maximo), departmental worker mobility projects and other efforts related to these. These initiatives are departmental in nature.			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
			Rate Supported	4,240	Rate Supported Debt		0	
			Develop. Charges	0	Develop. Charges Debt		0	
			Gas Tax	0	Gas Tax Debt		0	
			Forecast	2024	2025	2026	2027	
			Authority	4,240	250	0	0	
			Spending Plan	1,573	1,069	704	50	
FTEs	0	0	0	0				
Operating Impact	0	0	0	0				

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Service Area: Integrated Water & Wastewater
In Thousands (\$000)

Project(s) within a Program Information			\$000's
911362 Tech Roadmap, Data Strategy & Decision		Class of Estimate: C) Planning	250
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>"Embrace Technology" is one of the pillars of the Departmental Strategic Plan. Funds will be required to develop a technology and innovation plan, data strategy and KPI dashboards for IWSD which have been identified as priorities in our strategic plan. The deliverables include a Technology Roadmap for the next 3-5 years, a data governance model, data standards, and a framework for data-driven decision making. This initiative will also address some of the elements of the new Data Security Classification and Handling Policy coming into effect.</p>			
911363 2024 Technology Need and Mobility Proj		Class of Estimate: C) Planning	1,500
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The completion of the Maximo integration with SAP interfaces for Payroll, Materials Management and Financial transactions is required to implement mobile version of the EAM maintenance solution to field works in Drinking Water and Wastewater Services so that field staff can receive work, update work order information, and access data to complete field assignments. The mobile solution enables "closed loop" communications between the 311 call centre and operations. Completion of these project elements will assist the department in realizing the efficiency expectations that have already been committed and delivered as part of the Service Excellence efficiency targets. The budget is required for project related staff resources, specialized external resources and associated hardware and software requirements.</p>			
911368 Technology Improvement Initiatives		Class of Estimate: C) Planning	2,490
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The Technology Improvements Initiatives program includes various projects and initiatives related to the implementation of asset management processes, departmental worker mobility projects and other efforts related to these for Drinking Water Services, Stormwater Services, Support Services and Wastewater Collection.</p>			

City of Ottawa
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Service Area: Stormwater Services											
Category	2024 Draft Capital Budget	Revenues	Tax Supported/ Dedicated Reserves	Rate Supported Reserves	Develop. Charges	Gas Tax	Debt				
							Tax/ Dedicated	Rate	Develop. Charges	Gas Tax	Total Debt
Renewal of City Assets	66,462	600	0	48,440	0	0	0	17,422	0	0	17,422
Growth	258	0	0	129	129	0	0	0	0	0	0
Regulatory	0	0	0	0	0	0	0	0	0	0	0
Service Enhancements	0	0	0	0	0	0	0	0	0	0	0
Total	66,720	600	0	48,569	129	0	0	17,422	0	0	17,422

City of Ottawa
2024 Draft Capital Budget
Service Area: Stormwater Services
In Thousands (\$000)

Project Information			Financial Details					
908252 Stormwater Mgmt Retrofit Master Plan			Class of Estimate:		Not Applicable			
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2025				
Reduces greenhouse gases?		No	2024 Request		309	Projected Yearend Unspent Bal.		1,561
Builds climate resiliency?		Yes - Minor Contribution	Revenues	0	Debt			
<p>These funds will support the completion of a stormwater management (SWM) retrofit master plan to improve water quality, reduce runoff and improve stream health in older urban areas that developed before current SWM requirements were in place. This plan will focus on the remaining central priority areas that are located between two previous SWM retrofit study areas, Pinecrest Creek/Westboro and Eastern Subwatersheds, and will be completed in stages to assess potential retrofit opportunities and establish stormwater management objectives and criteria.</p> <p>The SWM retrofit master plan will consider future precipitation and help reduce impacts to properties and watercourses from increased runoff.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
			Rate Supported	309	Rate Supported Debt		0	
			Develop. Charges	0	Develop. Charges Debt		0	
			Gas Tax	0	Gas Tax Debt		0	
			Forecast		2024	2025	2026	2027
			Authority	309	318	325	331	
Spending Plan	809	818	886	331				
FTEs	0	0	0	0				
Operating Impact	0	0	0	0				
911196 2024 Stormwater Management Retrofit			Class of Estimate:		Not Applicable			
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2027				
Reduces greenhouse gases?		No	2024 Request		1,030	Projected Yearend Unspent Bal.		0
Builds climate resiliency?		Yes - Minor Contribution	Revenues	0	Debt			
<p>These funds will be applied to implementing: i) the Pinecrest Creek/Westboro Stormwater Management Retrofit Study; ii) the Eastern Subwatersheds Stormwater Management Retrofit Study; and iii) other Stormwater Management (SWM) retrofit opportunities outside these two study areas. These studies, and subsequent implementation, are a component of the Ottawa River Action Plan and are needed to improve stormwater management in older neighbourhoods and reduce the on-going impacts of uncontrolled/untreated urban runoff on the Ottawa River and its tributaries. In addition, this funding will support Low Impact Development (LID) guidelines and tools as well as supporting the operation and maintenance of LID pilot retrofits in City rights-of-way and on City properties.</p> <p>This project has a minor contribution to reducing climate risks from increased precipitation volume and intensity.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
			Rate Supported	618	Rate Supported Debt		412	
			Develop. Charges	0	Develop. Charges Debt		0	
			Gas Tax	0	Gas Tax Debt		0	
			Forecast		2024	2025	2026	2027
			Authority	1,030	2,653	2,705	4,416	
Spending Plan	515	1,636	2,354	3,550				
FTEs	0	0	0	0				
Operating Impact	0	0	0	0				

City of Ottawa
2024 Draft Capital Budget
Service Area: Stormwater Services
 In Thousands (\$000)

Project Information			Financial Details							
911198	2024 Flood Plain Mapping		Class of Estimate:		Not Applicable					
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: CW		Year of Completion: 2026					
Reduces greenhouse gases?		No	2024 Request		335	Projected Yearend Unspent Bal.		0		
Builds climate resiliency?		Yes - Major Contribution	Revenues		0	Debt				
<p>The City has a multi-year agreement to update its flood plain mapping with the three Conservation Authorities: Rideau Valley, South Nation and Mississippi. The assessment uses contemporary methods in hydrologic and hydraulic analysis, historical records of stream flow and/or water level, and the most up-to-date topographical data to produce new or updated estimates of the 1:100 year flood lines, delineate additional products, and delineate riverine erosion hazards for specific watercourses. This budget request is needed to comply with the planned cost-sharing as described in the contribution agreement and to finance other flood plain mapping work. It is anticipated that new or updated flood plain mapping studies will also be required to support urban boundary expansion approved in the new Official Plan. This budget request also includes costs for related study work to support and inform regulation mapping, which are not covered in the contribution agreement. The Flood Plain Mapping Program has a major contribution to reducing climate risks from increased precipitation volume and intensity. The project includes mapping of the 1:350 year flood plain as a climate change scenario, to inform emergency planning and development planning as per the new Official Plan.</p>			Tax Supported/ Dedicated		0	Tax Supported/ Dedicated Debt		0		
			Rate Supported		295	Rate Supported Debt		40		
			Develop. Charges		0	Develop. Charges Debt		0		
			Gas Tax		0	Gas Tax Debt		0		
			Forecast		2024	2025	2026	2027		
			Authority		335	371	476	442		
			Spending Plan		168	286	416	438		
FTEs		0	0	0	0					
Operating Impact		0	0	0	0					

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 In Thousands (\$000)

Program Information			Financial Details				
Municipal Drains			Class of Estimate: C) Planning				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request		650	Projected Yearend Unspent Bal.		0
Builds climate resiliency?	No	Revenues	600	Debt			
<p>The program is required to address modifications, improvements and construction of Municipal Drains in the City of Ottawa. Under Sections 4 and 78 of the Drainage Act, RSO 1990, the municipality, whose duty it is to maintain, and repair drainage works or any part thereof, may with or without a petition, undertake and complete such drainage works. These drainage systems provide legal outlet for a vast majority of the agricultural and rural lands and roads in the City; however the impetus for the majority of projects in this program is from land and road development mainly in the rural and suburban areas and as such the timing of the works hinges on the particular development project, which can span several years. In most cases the entire cost of the drainage works, including engineering and construction costs, is paid by the developer and/or benefiting landowners and in all cases the costs are recovered by the City once the drainage works are completed. All drainage works undertaken by the municipality, pursuant to the above-noted sections of the Act must be approved by Council.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
		Rate Supported	50	Rate Supported Debt		0	
		Develop. Charges	0	Develop. Charges Debt		0	
		Gas Tax	0	Gas Tax Debt		0	
		Forecast	2024	2025	2026	2027	
Authority	650	50	50	50			
Spending Plan	25	40	50	50			
FTEs	0	0	0	0			
Operating Impact	0	0	0	0			

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Service Area: Stormwater Services
 In Thousands (\$000)

Project(s) within a Program Information			\$000's
911341	2024 Municipal Drain Improvements	Class of Estimate: Not Applicable	650
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The Drainage Act provides landowners with a tool to help resolve drainage concerns. Once a request is received from a landowner the Drainage Act process is initiated. The project costs are initially paid by the City and are subsequently recovered through provincial funding and landowner assessment as determined by the Engineers Report and By-law. All funding is to support legislated works under the Drainage Act and associated costs are recovered through assessments to benefiting landowners, so there is no net cost to the City.</p>			

City of Ottawa
2024 Draft Capital Budget
Service Area: Stormwater Services
 In Thousands (\$000)

Program Information		Financial Details				
Stormwater Collection Rehabilitation		Class of Estimate: D) Conceptual				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various			
Reduces greenhouse gases?	No	2024 Request	43,430	Projected Yearend Unspent Bal. 2,582		
Builds climate resiliency?	Yes - Minor Contribution	Revenues	0	Debt		
<p>The Stormwater Collection Rehabilitation Program addresses annual rehabilitation and operational capital requirements for the City's stormwater collection system in order to preserve and extend the life of the infrastructure, reduce flooding occurrences, and prevent failures requiring more extensive reconstruction.</p> <p>The program is focused on:</p> <ul style="list-style-type: none"> • Flood mitigation measures. • Proactive lifecycle renewal and rehabilitation projects. • Level of service initiatives. • System improvements and optimization. • Miscellaneous upgrades and rehabilitation to support growth demand. <p>The funding requests for stormwater costs coordinated with roadway, wastewater or water rehabilitation are included within the Integrated Rehabilitation Programs. Program funding requirements to support renewal needs are defined in the Long Range Financial Plan.</p> <p>Stormwater improvement projects increase or maintain existing stormwater assets level of service to prevent future flooding and guard against extreme precipitation volume and intensity. The natural asset management and ditch programs in particular will build understanding of risks to watercourses, ravines and ditches from changing climate conditions, and identify ways to mitigate these risks.</p> <p>Detailed information and costs associated with specific stand-alone (non-integrated) components and projects are provided following this program summary page.</p> <p>Forecasts are based on bulk allocations that will be detailed in future budget submissions.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt	0	
		Rate Supported	38,430	Rate Supported Debt	5,000	
		Develop. Charges	0	Develop. Charges Debt	0	
		Gas Tax	0	Gas Tax Debt	0	
		Forecast	2024	2025	2026	2027
		Authority	43,430	5,000	1,500	1,500
Spending Plan	21,715	15,529	10,936	2,200		
FTEs	0	0	0	0		
Operating Impact	0	0	0	0		

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Project(s) within a Program Information			\$000's
908618	CWWF Convent Glen North Storm Sewer	Class of Estimate: A) Pre-Tender	36,930
Category: Renewal of City Assets	Ward: 1	Year of Completion: 2026	
<p>This project will finalize the design for the rehabilitation of the trunk storm sewer from the north side of RR174 to the outlet at the Ottawa River. The storm sewer is located west of Jeanne D'Arc Blvd and runs behind homes and under pathways within City owned parcels. Trenchless methods of rehabilitation is recommended due to the depth of the storm sewer.</p> <p>The funding request includes a \$369K contribution to Public Art.</p>			
911306	2024 Storm and Surface Water Rehab	Class of Estimate: D) Conceptual	2,500
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This program provides for the development and monitoring of asset management plan components for the city's natural system assets – an evolving field of practice for the City of Ottawa. These components include development, quantification, and documentation of natural system asset inventories, condition ratings, and the levels of service provided by natural assets. Natural assets are often in a state of change or dynamic stability and this asset management program also includes risk assessment under current conditions, monitoring, contingency planning, prioritization, rehabilitation and stabilization of storm and surface water features, including creeks, rivers, ravines, slope stabilization and flood mitigation measures at various locations. The funding is for all project related costs which may include investigation, design, construction and property acquisition for rehabilitation and stabilization works. Natural assets are increasingly at risk from changing climate conditions, including flooding and erosion from increased volume and intensity of precipitation. Impacts on natural assets can affect local property and infrastructure. This emerging program will understand and address these risks.</p>			
911307	2024 Drainage System Renewal	Class of Estimate: C) Planning	4,000
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This program provides for the assessment, restoration, and improvement of existing open drainage (e.g. ditch) networks and related infrastructure components (e.g. catchbasins, perforated pipes, and culverts). Works can include: study, design, survey, inspection, restoration, and full reconstruction.</p> <p>This program builds the ability of ditch networks to reduce the risks of flooding in smaller rainfall events, which will become more frequent with climate change.</p>			

City of Ottawa
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Service Area: Stormwater Services
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Program Information			Financial Details						
Stormwater Management Facilities			Class of Estimate: C) Planning						
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various					
Reduces greenhouse gases?	No			2024 Request	5,480	Projected Yearend Unspent Bal.		0	
Builds climate resiliency?	Yes - Minor Contribution			Revenues	0	Debt			
<p>Stormwater Management facilities serve to protect homes, business and the road network from flooding and also mitigate erosion and water quality impacts from the growing city. Currently, the City owns, operates and maintains over 250 stormwater management (SWM) pond facilities. While most SWM ponds appear natural and simple, they are complicated engineered facilities that include significant hard elements such as concrete hydraulic structures, large valves and flow control gates. In addition to SWM ponds, the City also maintains 100 underground treatment tanks, 25 specialty treatment systems (including 3 low impact development gardens located in the right-of-way), 14 stormwater pumping stations, as well as corresponding linear infrastructure.</p> <p>Keeping stormwater facilities in good repair ensures they provide their water quality, erosion and flood control services, which are increasingly important as the climate changes.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt	0			
			Rate Supported	5,180	Rate Supported Debt	300			
			Develop. Charges	0	Develop. Charges Debt	0			
			Gas Tax	0	Gas Tax Debt	0			
			Forecast	2024	2025	2026	2027		
			Authority	5,480	6,124	3,000	3,000		
Spending Plan	2,700	4,682	4,417	3,625					
FTEs	0	0	0	0					
Operating Impact	0	0	0	0					

City of Ottawa
2024 Draft Capital Budget
Service Area: Stormwater Services
 In Thousands (\$000)

Project(s) within a Program Information			\$000's
911169	2024 New Vehicles Stormwater	Class of Estimate: A) Pre-Tender	80
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>A new vehicle is required for activities related to stormwater maintenance.</p>			

City of Ottawa
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Service Area: Stormwater Services
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Project(s) within a Program Information			\$000's
911339	2024 Stormwater Mgmt: Rehab&Enviro Compl	Class of Estimate: C) Planning	2,800
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The City owns, operates and maintains over 350 stormwater facilities (including underground treatment tanks) for the management of stormwater runoff. This number is increasing at the rate of 5-10 per year. The facilities provide flow attenuation and water quality treatment, ensuring that stream corridors and water quality are not degraded. In order to ensure combined compliance with environmental regulations and MECP Certificate of Approval discharge criteria, these facilities require maintenance activities such as the removal and disposal of accumulated sediment, along with major repair or rehabilitation of structures and flow regulation equipment. Specialized monitoring activities to optimize facility performance are conducted on specific facilities to assist the City in meeting the compliance criteria. Keeping stormwater facilities in good repair ensures they provide their water quality, erosion and flood control services, which are increasingly important as the climate changes.</p>			
911340	2024 Linear Storm System Improvements	Class of Estimate: C) Planning	2,000
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>To fund work completed by wastewater operations staff to rehabilitate stormwater assets. This could include work on any of the City's catch basins, sewers, manholes, outfalls or stormwater pumping stations.</p>			

City of Ottawa
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Service Area: Stormwater Services
 In Thousands (\$000)

Program Information			Financial Details				
Structures-Stormwater			Class of Estimate: C) Planning				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request	15,228	Projected Yearend Unspent Bal.			0
Builds climate resiliency?	No	Revenues	0	Debt			
<p>The Structures Stormwater Program provides for condition assessments, preventative maintenance, rehabilitation and reconstruction works undertaken on the City's existing drainage culverts. Program funding requirements to support renewal needs are defined in the Long Range Financial Plan.</p> <p>Detailed information and costs associated with specific components and projects directly follow this program summary page.</p> <p>Forecasts are based on bulk allocations that will be detailed in future budget submissions.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
		Rate Supported	3,558	Rate Supported Debt		11,670	
		Develop. Charges	0	Develop. Charges Debt		0	
		Gas Tax	0	Gas Tax Debt		0	
		Forecast	2024	2025	2026	2027	
Authority	15,228	16,277	17,066	17,943			
Spending Plan	7,614	12,707	16,462	17,347			
FTEs	0	0	0	0			
Operating Impact	0	0	0	0			

City of Ottawa
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Service Area: Stormwater Services
In Thousands (\$000)

Project Information		Location/Description	\$000's
911294 2024 Drainage Culverts - CW		Class of Estimate: C) Planning	12,378
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The City has a significant inventory of drainage culverts ranging from small diameter roadway culverts (typically non-urbanized ditch drainage under roadways and intersections) to larger span drainage structures. This project is for lifecycle renewal of various culverts. The size and complexity of the projects vary considerably.</p>			
Ward	Location	Description	
22	Albion Rd Findlay Creek MD Culvert	4.95 km N of Mitch Owens Dr RF Con 3 Lot 18	
5	Torbolton Ridge Rd Culvert	2.10 km N of Kinburn Side Rd Con 1/2 Lot 14	
5	Vances Side Rd Culvert	0.08 km east of Dunrobin Rd	
5	Ritchie Side Rd Culvert	0.45 km W of Walker Bradley	
5	Richardson Side Rd Culvert	2.55 Km W of Huntmar Rd Con 2 Lot 5/6	
5	Manion Heights Cres Culvert	0.56 km west From Corkery Rd	
21	Fernbank Rd Culvert	2.49 km E of Jinkinson Rd	
21	Harnett Rd Culvert	0.05 km N of Donnelly Dr	
21	Third Line Rd N on Wright-Eastman MD Culvert	0.22 km N of Carsonby Rd W	
20	Cooper Hill Rd Culvert	0.02 km West of Blackcreek Rd	
20	Cooper Hill Rd Culvert on Fine MD	0.75 km W of Boundary Rd [CR41]	
20	9th Line Rd Culvert	0.70 km north of Marvelville Rd	
20	Forest Green Rd Culvert	0.01 km East of 8th Line	
20	Bank St Culvert on Stone School Road	0.04 km S of Stone School Rd	
20	Bank St Culvert	0.87 km N of Stone School Rd	
20	John Quinn Rd Culvert	0.47 km S of Mitch Owens Rd	
19	Sarsfield Rd Culvert	0.49 km S of French Hill Rd	
19	Maglady Rd Culvert	0.16 km W of Sarsfield Rd	
1	Regional Road 174 Culvert	0.08 km east of Old Montreal Rd	
10	River Rd Culvert	0.30 km south of Balmoral Dr	
10	River Rd Culvert	0.10 km south of Balmoral Dr	
20	Limebank Rd Culvert on Keith Moodie	0.75 km north of Mitch Owens Rd	
19	Navan Rd Culvert	0.01 km east of Page Rd	
19	Navan Rd Culvert	0.15 km east of Renaud Rd	

City of Ottawa
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Service Area: Stormwater Services
In Thousands (\$000)

Project Information		Location/Description	\$000's
911294 2024 Drainage Culverts - CW		Class of Estimate: C) Planning	12,378
Category: Renewal of City Assets Ward: CW		Year of Completion: 2026	
911294 - Continued			
Ward	Location	Description	
19	Navan Rd Culvert	0.55 km east of Renaud Rd	
19	Navan Rd Culvert	0.95 km east of Renaud Rd	
5	Thomas A. Dolan Pky Culvert	0.08 km east of Sixth Line Rd	
5	Galetta Side Rd Culvert	0.01 km east of Stonecrest Rd	
5	Galetta Side Rd Culvert	0.45 km west of Woodkilton Rd	
5	Dunrobin Rd Culvert	0.71 km south of Thomas Dolan Pkwy	
21	Dwyer Hill Rd Culvert	1.07 km north of Paden Rd	
21	Dwyer Hill Rd Culvert	1.56 km south of Roger Stevens Rd	
21	Dwyer Hill Rd Culvert	1.16 km north of Roger Stevens Rd	
21	Dwyer Hill Rd Culvert	2.64 km north of Roger Stevens Rd	
21	Dwyer Hill Rd Culvert	3.06 km north of Roger Stevens Rd	
21	Dwyer Hill Rd Culvert	3.36 km north of Roger Stevens Rd	
21	Dwyer Hill Rd Culvert	0.88 km south of O'Neil Rd	
21	Fourth Line Rd Culvert	0.15 km north of Dilworth Rd	
20	Victoria St Ramp Culvert	0.11 km west of Victoria St	
20	Russell Rd Culvert	0.75 km east of Boundary Rd	
19, 20	Russell Rd Culvert	0.21 km west of Russellet Rd	
9	Riverbrook Rd Culvert	0.08 km north of Siskin Crt	
8	Timm Dr Culvert	0.09 km west of Haanel Dr	
5	Spruce Ridge Rd Culvert	0.17 km north of Midvale Dr	
21	Jock Trl Culvert	0.01 km east of Dwyer Hill Rd	
21	Garvin Rd Culvert	1.00 km west of Huntley Rd	
21	Bleeks Rd Culvert	0.01 km east of Dwyer Hill Rd	
21	Shea Rd Culvert	0.01 km north of Garvin Rd	

City of Ottawa
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Project Information		Location/Description	\$000's
911294 2024 Drainage Culverts - CW		Class of Estimate: C) Planning	12,378
Category: Renewal of City Assets Ward: CW		Year of Completion: 2026	
911294 - Continued			
Ward	Location	Description	
21	Fernbank Rd Culvert	0.23 km east of Jinkinson Rd	
20	Tintern Dr Culvert on Osgoode Gardens-Cedar	0.07 km south of Woodstream Dr	
20	8th Line Rd Culvert	0.53 km north of Marvelville Rd	
20	Fetterly Dr Culvert	0.07 km west of South Branch St	
20	Parkway Rd Culvert	0.22 km west of Miles Cres	
20	Devine Rd Culvert	0.25 km east of Clayton Rd	
20	Division St Culvert	0.01 km east of Buckland Rd	
19	Magladry Rd Culvert	0.53 km south of Heuvelmans Rd	
19	Magladry Rd Culvert on George Birch MD	0.01 km east of Birchgrove Rd	
1	Quigley Hill Rd Culvert	0.28 km north of Cumberland Ridge Dr	
19	Langlade Rd Culvert	0.09 km north of Russell Rd	
19	Birchgrove Rd Culvert on George Birch MD	0.01 km north of Magladry Rd	
15	Byron Ave Culvert	0.01 km east of Hillcrest Ave	
21	Steeple Hill Rd Culvert	0.77 km north of Fallowfield Rd	
8	Granton Ave Culvert	0.01 km west of Bassano St	
21	Riverside Cres Culvert	0.15 km east of Long Island Rd	
5	Strode Ave Culvert	0.01 km west of Barlow Cres	
5	Willand Lane Culvert	0.41 km south of Constance Bay Rd	
5	Willand Lane Culvert	0.30 km south of Constance Bay Rd	
5, 34	Walter Bradley Rd Culvert	0.04 km east of Ottawa Road 29	
5, 34	Walter Bradley Rd Culvert	0.01 km east of Ottawa Road 29	
5	Loggers Way Culvert	0.30 km south of Kingdon Mine Rd	
5	John Shaw Rd Culvert	0.01 km south of Galetta Side Rd	
5	Whitetail Dr Culvert	0.14 km north of Lupine Lane	

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Project Information		Location/Description	\$000's
911294 2024 Drainage Culverts - CW		Class of Estimate: C) Planning	12,378
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
911294 - Continued			
Ward	Location	Description	
5	Thomas Fuller Dr Culvert	0.07 km north of Nash Way	
5	Panandrick View Dr Culvert	0.01 km west of Nadia Lane	
5	Mowbray St Culvert	0.4 km North of Harwood Lane	
21	Burke St Culvert	0.01 km west of Colonel Murray St	
21	Conley Rd Culvert	0.42 km north of Franktown Rd	
21	Coldstream Dr Culvert	0.01 km east of Munster Rd	
21	Fallowfield Rd Culvert	0.85 km east of McCaffrey Trl	
21	Fallowfield Rd Culvert	0.44 km west of Dwyer Hill Rd	
21, 34	Gilroy Rd Culvert	0.01 km north of Donnelly Rd	
21	Paden Rd Culvert	0.19 km east of Dwyer Hill Rd	
21	Harnett Rd Culvert	0.29 km south of Mulholland Rd	
21	Michelangelo Crt Culvert	0.25 km east of Russvern Dr	
21	Stratton Dr Culvert	0.01 km west of Third Line Rd S	
21	Dorack Dr Culvert	0.01 km south of Rideauvale Ave	
21	Carsonby Rd W Culvert	0.34 km west of Prince of Wales Dr	
20	Scanlon Dr Culvert	0.18 km north of Buckles St	
20	White Oak Dr Culvert	0.01 km north of Jack Pine Cres	
20	Wild Fern Way Culvert	0.01 km north of Woodstream Dr	
20	Glen St Culvert	0.01 km east of Johannes St	
20	Stone School Rd Culvert	0.01 km west of John Quinn Rd	
20	Wellwood St Culvert	0.24 km north of Princiotta St	
20	Johannes St Culvert	0.01 km south of Black Willow Lane	
20	Johannes St Culvert	0.01 km south of Gerben St	
20	Glen St Culvert	0.01 km south of Dowser St	

City of Ottawa
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Service Area: Stormwater Services
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Project Information		Location/Description	\$000's
911294 2024 Drainage Culverts - CW		Class of Estimate: C) Planning	12,378
Category: Renewal of City Assets Ward: CW		Year of Completion: 2026	
911294 - Continued			
Ward	Location	Description	
20	Glen St Culvert	0.01 km north of Dowser St	
20	Johnston Dr Culvert	0.01 km west of D'Arcy St	
20	Jack Pine Cres Culvert	0.01 km west of Stagecoach Rd	
20	McVagh Rd Culvert	0.01 km south of Devine Rd	
1	Sequoia Dr Culvert	0.21 km north of Jonquille Way	
9	Greenbank Rd Pathway Culvert (S pipe)	1.63 km north of Fallowfield Rd	
9	Greenbank Rd Pathway Culvert (N pipe)	1.63 km north of Fallowfield Rd	
9	Greenbank Rd Pathway Culvert	2.05 km north of Fallowfield Rd	
9	Greenbank Rd Pathway Culvert	2.35 km north of Fallowfield Rd	
9	Greenbank Rd Pathway Culvert	0.77 km south of West Hunt Club Rd	
21	William McEwen Rd Thomas Baxter MD Culvert	0.60 km N of Brophy Dr	
21	William McEwen Dr Twin Culvert on Thomas	1.65 km North of Bankfield Rd	
5	Farmview Rd Culvert	1.22 km south of Hunt Line Rd	
5	OR 29 Culvert	2.00 km S of Galetta Side Rd	
21	Franktown Rd Culvert	0.05 km E of Munster Side Rd	
21	Fallowfield Rd Culvert	0.02 km E of Munster Rd	
21	Roger Stevens Dr Culvert	1.50 km W of Dwyer Hill Rd Con 5 Lot 28	
21	Second Line Rd South Culvert on Dillon-	0.10 km north of Roger Stevens Dr	
20	Snake Island Culvert	2.40 km E of Stagecoach Rd [CR25]	
20	Eldo St Culvert	0.34 km W of Eighth Line Rd Con 7 Lot 22	
9	Siskin Crt Grahams Creek Centre Culvert	0.84 km W of Greenbank Rd	
21	Moodie Dr Twin Culvert	1.40 km N of Fallowfield Rd	
5	Baskins Beach Rd Twin Culvert	0.85 Km N of Vances Side Rd	
5	Hardwood Dr Twin Culvert	0.48 km S of Sol Lane	

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Project Information		Location/Description	\$000's
911294 2024 Drainage Culverts - CW		Class of Estimate: C) Planning	12,378
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
911294 - Continued			
Ward	Location	Description	
21	Fourth Line Rd Twin Culvert - South Pipe	0.06 km S of Callendor Rd	
21	Brophy Rd Culvert	0.90 km east of Moodie Dr	
21	Brophy Rd Culvert	0.41 km west of William McEwen Dr	
5	Thomas A. Dolan Pky Culvert	0.32 km east of Stonecrest Rd	
5	Thomas A. Dolan Pky Culvert	0.75 km east of Stonecrest Rd	
5	Shaw Rd Culvert	0.03 km east of Lunney Rd	
5	Shaw Rd Culvert	0.05 km east of Lunney Rd	
5	Shaw Rd Culvert	0.01 km west of Ottawa Road 29	
5	Carp Rd Culvert	0.30 km north of Richardson Side Rd	
21	Dwyer Hill Rd Culvert	0.22 km north of Crawford Side Rd	
21	Dwyer Hill Rd Culvert	0.14 km south of O'Neil Rd	
19	Innes Rd Culvert	0.02 km east of Cox Country Rd	
19	Innes Rd Culvert	0.01 km west of Dunning Rd	
24	Winding Way Culvert	0.03 km east of Prince of Wales Dr	
7	Cyrus Crt Culvert	0.01 km east of James Cummings Ave	
20	Rideau Rd Culvert	0.16 km west of Spratt Rd	
20	Rideau Rd Culvert	0.28 km east of Limebank Rd	
20	Rideau Rd Culvert	0.38 km east of Spratt Rd	
5	Connifer Lane Culvert	0.07 km east of Herrick Dr	
5	Richardson Side Rd Culvert	0.23 km west of Cardevco Rd	
5	John Aselford Drwy Culvert	0.14 km west of Edith Margaret Pl	
6	Poole Creek Cres Culvert	0.01 km west of Fringewood Dr	
20	Manotick Station Rd Culvert	0.01 km north of Herberts Corners Rd	
20	Dalmac Rd Culvert	0.01 km south of Dalmeny Rd	

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Project(s) within a Program Information			\$000's
911296	2024 Culverts Scoping Pre/Post Eng.	Class of Estimate: C) Planning	800
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>Scoping and design briefs are necessary to adequately define conditions, coordinate requirements, and scope projects prior to initiating design stages. Detailed condition assessment, structure evaluation, drainage studies, species-at-risk screening, and lifecycle based renewal options analysis are key components of this work. The outcomes of this work are the inputs of the design and construction phases of the project delivery processes. Post construction funding is required to address assessments and planned/unexpected adjustments outside the original implementation funding envelopes. Design and construction authority requests will be programmed as part of future capital budgets, once these initiatives are complete and project scope is fully defined.</p>			
911297	2024 Drainage Culverts - Site-Specific	Class of Estimate: C) Planning	1,500
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This program provides the authority to undertake engineering, design and construction of renewal works that are not budgeted through any other renewal program that arise over the course of the year. Many culvert assets have reached or will reach the end of their service life, thus an increased number of reactive replacements are anticipated.</p>			
911298	2024 Drainage Culverts-Site-Specific Other	Class of Estimate: C) Planning	250
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This program provides authority to undertake minor repairs and unplanned replacements of drainage culverts through other City departments.</p>			

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Project(s) within a Program Information			\$000's
911299	2024 Drainage Culverts Assessment	Class of Estimate: C) Planning	300
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2025	
<p>This program provides the authority for the inspection of drainage culverts under roadways and any required follow-up assessments.</p>			

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Project Information			Financial Details					
909730	2020 Stormwater Master Planning		Class of Estimate:		Not Applicable			
Dept:	Infrastructure & Water Services Department	Category: Growth	Ward: CW		Year of Completion: 2024			
Reduces greenhouse gases?		No	2024 Request		258	Projected Yearend Unspent Bal. 874		
Builds climate resiliency?		Yes - Minor Contribution	Revenues		0	Debt		
<p>The requested funds are to support stormwater master planning and design review work needed to support growth and maintenance of existing service levels.</p> <p>Stormwater master planning and design will consider future precipitation.</p>			Tax Supported/ Dedicated		0	Tax Supported/ Dedicated Debt 0		
			Rate Supported		129	Rate Supported Debt	0	
			Develop. Charges		129	Develop. Charges Debt	0	
			Gas Tax		0	Gas Tax Debt	0	
			Forecast		2024	2025	2026	2027
			Authority		258	266	270	276
Spending Plan		706	638	269	275			
FTEs		0	0	0	0			
Operating Impact		0	0	0	0			

City of Ottawa
2024 Draft Capital Budget
Environment and Climate Change Committee-Rate
In Thousands (\$000)

Service Area: Wastewater Services											
Category	2024 Draft Capital Budget	Revenues	Tax Supported/ Dedicated Reserves	Rate Supported Reserves	Develop. Charges	Gas Tax	Debt				
							Tax/ Dedicated	Rate	Develop. Charges	Gas Tax	Total Debt
Renewal of City Assets	67,903	0	0	43,516	365	0	0	24,022	0	0	24,022
Growth	13,726	464	0	1,987	10,499	0	0	0	776	0	776
Regulatory	0	0	0	0	0	0	0	0	0	0	0
Service Enhancements	0	0	0	0	0	0	0	0	0	0	0
Total	81,629	464	0	45,503	10,864	0	0	24,022	776	0	24,798

City of Ottawa
2024 Draft Capital Budget
Service Area: Wastewater Services
In Thousands (\$000)

Project Information			Financial Details					
911197	2024 Pump Stations Capacity Renewal		Class of Estimate:		D) Conceptual			
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2027				
Reduces greenhouse gases?		No	2024 Request		2,123	Projected Yearend Unspent Bal.		0
Builds climate resiliency?		Yes - Minor Contribution	Revenues	0	Debt			
<p>These funds will be used to cover renewal needs (benefit to existing) at five wastewater sewage pumping stations that are also being upgraded for capacity to support growth. The growth portion of the works is covered by a separate account which is funded by development charges. This 2024 budget request is to fund construction of Tenth Line pumping station upgrades and detailed design process for the Manotick Phase 1 pumping station improvements.</p> <p>Increased pump station capacity and back-up power help reduce climate risks from increased precipitation volume which can increase flows in the sanitary sewer system, and extreme events which can result in power failures.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
			Rate Supported	2,113	Rate Supported Debt		10	
			Develop. Charges	0	Develop. Charges Debt		0	
			Gas Tax	0	Gas Tax Debt		0	
			Forecast		2024	2025	2026	2027
			Authority	2,123	713	189	850	
Spending Plan	1,062	993	733	624				
FTEs	0	0	0	0				
Operating Impact	0	0	0	0				
908557	FEA2024 EUC Sanitary Sewer System		Class of Estimate:		Not Applicable			
Dept:	Planning, Real Estate, & Economic Development	Category: Growth	Ward: 2	Year of Completion: 2025				
Reduces greenhouse gases?		No	2024 Request		110	Projected Yearend Unspent Bal.		0
Builds climate resiliency?		No	Revenues	0	Debt			
<p>Funds will support the oversizing component of the EUC Sanitary Sewer System within the East Urban Community. The proposed sewer is identified in the Master Servicing Study for the East Urban Community Phase 3 Area Community Design Plan, December 2020 and the Development Charges Background Study as item 10.00X6.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
			Rate Supported	0	Rate Supported Debt		0	
			Develop. Charges	110	Develop. Charges Debt		0	
			Gas Tax	0	Gas Tax Debt		0	
			Forecast		2024	2025	2026	2027
			Authority	110	350	0	0	
Spending Plan	110	350	0	0				
FTEs	0	0	0	0				
Operating Impact	0	0	0	0				

City of Ottawa
2024 Draft Capital Budget
Service Area: Wastewater Services
In Thousands (\$000)

Program Information			Financial Details				
Sanitary Sewer Rehabilitation Program			Class of Estimate: C) Planning				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request		1,600	Projected Yearend Unspent Bal.		0
Builds climate resiliency?	No	Revenues	0	Debt			
<p>The Sanitary Sewer Rehabilitation Program addresses annual rehabilitation requirements for the City's wastewater collection system to extend the life of the infrastructure, provide continued service, mitigate property flooding and prevent failures requiring more extensive reconstruction.</p> <p>The program is focused on:</p> <ul style="list-style-type: none"> • Proactive lifecycle renewal and rehabilitation projects. • Level of service initiatives. • System improvements and optimization. • Miscellaneous upgrades and rehabilitation to support growth demand. <p>The funding requests for wastewater costs coordinated with roadway, stormwater or watermain rehabilitation are included within the Integrated Rehabilitation Programs. Program funding requirements to support renewal needs are defined in the Long Range Financial Plan. Detailed information and costs are provided following this program summary page.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt			0
		Rate Supported	1,600	Rate Supported Debt			0
		Develop. Charges	0	Develop. Charges Debt			0
		Gas Tax	0	Gas Tax Debt			0
		Forecast	2024	2025	2026	2027	
Authority	1,600	1,700	0	0			
Spending Plan	800	1,330	830	340			
FTEs	0	0	0	0			
Operating Impact	0	0	0	0			

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Project(s) within a Program Information			\$000's
911355	2024 Sanitary Sewer Rehabilitation Program	Class of Estimate: C) Planning	1,600
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The sanitary sewer rehabilitation program includes, but is not limited to, two core projects in 2024. The first project being undertaken is the Sanitary Sewer Collector Rehabilitation project. This project is required as trunks and collectors around the City are aging and while they are still in good to fair condition, specific feasibility studies are needed to determine the options for rehabilitation, develop cost estimates, timelines and priorities. In addition, the feasibility studies will determine if additional land/property is available or necessary to acquire in order to implement the rehabilitation options. The funding request will initiate the feasibility studies and provide for all project related costs which may include but are not limited to property acquisition. The second project is the Hazeldean Sanitary Forcemain Access Maintenance Hole construction. The Hazeldean Sanitary Sewer PS includes a forcemain constructed in 1975, which when built, did not include specific access for the latest inspection equipment. It is difficult to assess the condition of the pipe for lifecycle and rehabilitation/replacement purposes; therefore, a new chamber with the appropriate access port will be implemented on the PS site.</p>			

City of Ottawa
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Service Area: Wastewater Services
 In Thousands (\$000)

Program Information			Financial Details					
Wastewater & Stormwater Collection			Class of Estimate: D) Conceptual					
Dept:	Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request		7,250	Projected Yearend Unspent Bal.		0	
Builds climate resiliency?	Yes - Minor Contribution	Revenues	0	Debt				
<p>The City's wastewater and stormwater collection system includes over 5,900 km of sanitary, storm and combined pipes with a replacement value of over \$10.8 billion. The Wastewater & Stormwater Collection Rehabilitation Program addresses funding requirements to support renewal needs which are defined in the Long Range Financial Plan.</p> <p>Projects under this program include: annual condition assessments; replacement, rehabilitation and capitalized maintenance requirements to preserve and extend the life of the infrastructure; reduce flooding occurrences; prevent failures requiring more extensive reconstruction.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt			0	
		Rate Supported	5,750	Rate Supported Debt			1,500	
		Develop. Charges	0	Develop. Charges Debt			0	
		Gas Tax	0	Gas Tax Debt			0	
		Forecast		2024	2025	2026	2027	
		Authority	7,250	7,620	8,245	8,310		
		Spending Plan	3,625	5,985	7,859	8,153		
FTEs	0	0	0	0				
Operating Impact	0	0	0	0				

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Project(s) within a Program Information			\$000's
911327 2024 Collection Sys CondAssess Large Dia		Class of Estimate: C) Planning	
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This project intends to systematically inspect and assess the condition of large sewer trunks and collectors and perform repairs, as required. The output of this program will be used to develop capital renewal and/or rehabilitation programs. The funding is required to support the need of critical linear infrastructure, inspecting sewer trunks from 750mm to 1500mm.</p>			
911328 2024 Collection Sys CondAssess Small Dia		Class of Estimate: C) Planning	
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This project intends to systematically inspect and assess the condition of small diameter (less than 750mm in diameter) sewer networks and perform localized repairs, as required. The output of this program will be used to develop capital renewal and/or rehabilitation programs.</p>			
911329 2024 Sewer Lateral Repairs		Class of Estimate: C) Planning	
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The sewer collection systems includes 219,000 service connections, which are the sewer pipe between a building and the sewer main. When a house experiences a sewer backup due to a sewer lateral failure, every effort is made to minimize property damage by unblocking the lateral and putting it back in service. This annual program enables the City to investigate the cause of the failure and properly rehabilitate or replace sewer laterals.</p> <p>Repairing sewer laterals provides important resilience to increasing rainfall.</p>			

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Project(s) within a Program Information			\$000's
911331	2024 Flow Monitoring System Rehab	Class of Estimate: C) Planning	200
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This project is for the ongoing repair and upgrades to the flow monitoring system. The project focuses on reliability upgrades to the flow monitoring system currently in place within the wastewater collection system.</p>			

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Program Information			Financial Details				
Wastewater Collection Pumping Station			Class of Estimate: D) Conceptual				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request		8,069	Projected Yearend Unspent Bal.		359
Builds climate resiliency?	No	Revenues	0	Debt			
<p>The Wastewater Collection Pumping Stations program provides for lifecycle renewal and replacement to sustain continuous and reliable operation. Detailed scope of work for specific projects extends to a wide assortment of work, and includes retrofitting, rehabilitating and replacing equipment and assets due to age or condition; structural repairs; upgrades to improve functionality and increase redundancy; Health & Safety retrofits and specialized inspections.</p> <p>Detailed information and costs associated with specific components and projects are provided following this program summary.</p> <p>Forecasts are based on bulk allocations that will be detailed in future budget submissions.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
		Rate Supported	2,422	Rate Supported Debt		5,647	
		Develop. Charges	0	Develop. Charges Debt		0	
		Gas Tax	0	Gas Tax Debt		0	
		Forecast	2024	2025	2026	2027	
Authority	8,069	10,806	6,811	6,337			
Spending Plan	3,910	7,624	8,011	7,123			
FTEs	0	0	0	0			
Operating Impact	0	0	0	0			

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Project(s) within a Program Information			\$000's
910279	WWC Diesel Gen & Fuel System Rehab	Class of Estimate: B) Design	800
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2023	
<p>Annual generator maintenance contract including normal works, unplanned works, rentals, and fuel system repairs. This project is necessary to ensure generators are reliable when needed in power outages / emergencies.</p>			
911324	2024 Forcemain Condition Assess & Rehab	Class of Estimate: D) Conceptual	560
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This funding will be used for the completion of forcemain condition assessments and the completion of minor rehabilitation work on wastewater collection pumping stations, as required.</p>			
911325	2024 WWC Forcemain Rehab	Class of Estimate: D) Conceptual	250
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The objective of this program is to rehabilitate forcemains within the City that require repair.</p>			

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Project Information			Location/Description	\$000's
911332 2024 Sewage Pumping Station Rehab Prog			Class of Estimate: D) Conceptual	5,734
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2027		
<p>This program provides for lifecycle renewal and replacement works to existing wastewater collection pumping stations.</p>				
Ward	Location	Description		
23	Hazeldean Pump Station	Replace manual screen		
CW	Various	Reliability Engineering - Testing and Inspections		
CW	Various	Condition Assessments and Lifecycle Model development		
CW	Various	Health and safety rehabilitations (ladders and platforms)		
CW	Various	Installation of generator docking stations at 9 pump stations		
CW	Various	Electrical Preventative Maintenance (3-yr)		
CW	Various	Maintenance Management Program Review and Improvements		
CW	Various	Autodialler System Upgrade		
18	Walkley Pump Station	Electrical Rehabilitation		
23	Hazeldean Pump Station	Pump Replacement		
6	Kanata West Pump Station	Generator Replacement		
CW	Various	Wastewater Pump Stations Minor Capital Program		

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Project(s) within a Program Information			\$000's
911333	2024 Wastewater Collection Maintenance	Class of Estimate: D) Conceptual	725
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The objective of this program is to manage the capitalized maintenance costs of the City's wastewater pumping stations.</p>			

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Program Information			Financial Details				
Wastewater General			Class of Estimate: D) Conceptual				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request	2,535	Projected Yearend Unspent Bal.			0
Builds climate resiliency?	Yes - Moderate Contribution	Revenues	0	Debt			
<p>The wastewater general program consists of sub-programs and projects that support the entire Wastewater Collection and Treatment programs. These programs cover operational issues, legislative requirements, system planning, and other strategic directions such as environmental programs.</p> <p>This program funds the Residential Protective Plumbing Program, which supports the installation of backwater valves and sump pumps that protect homeowners from basement flooding due to sewer back-ups.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
		Rate Supported	1,535	Rate Supported Debt		1,000	
		Develop. Charges	0	Develop. Charges Debt		0	
		Gas Tax	0	Gas Tax Debt		0	
		Forecast	2024	2025	2026	2027	
		Authority	2,535	2,450	2,250	2,350	
Spending Plan	1,225	1,960	2,350	2,340			
FTEs	0	0	0	0			
Operating Impact	0	0	0	0			

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Project(s) within a Program Information			\$000's
911322	2024 New Vehicles Wastewater	Class of Estimate: C) Planning	385
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>A total of 2 new vehicles are required for the maintenance activities related to the Wastewater Collections and Linear Maintenance units.</p>			
911323	2024 Protective Plumbing Program	Class of Estimate: D) Conceptual	150
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The City of Ottawa's Residential Protective Plumbing Program provides financial assistance towards a portion of the costs of the installation of protective plumbing for eligible property owners. Protective plumbing describes the devices and/or means used to protect homeowners against the entry of stormwater and/or wastewater into basements, resulting from a storm or sanitary sewer backup.</p> <p>The program will be increasingly important as the risks of basement flooding are expected to increase with increased volume and intensity of precipitation.</p>			
911330	2024 Linear Sewage System Improvements	Class of Estimate: C) Planning	2,000
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>Ongoing repair and rehabilitation of the City sewer system is required to maintain its integrity and its hydraulic capacity, as well as to protect the City's extensive investment in infrastructure. This work consists of a variety of generally smaller projects involving the sewers and related appurtenances (manholes, drop shafts, ladders and landings, etc.).</p>			

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Program Information			Financial Details				
Wastewater Treatment			Class of Estimate: D) Conceptual				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request		43,326	Projected Yearend Unspent Bal.		952
Builds climate resiliency?	Yes - Major Contribution	Revenues	0	Debt			
<p>The Wastewater Treatment program provides for lifecycle renewal and replacement to sustain the continuous and reliable operation of the Robert O. Pickard Environmental Centre (ROPEC). In order to provide continued uninterrupted treatment of wastewater, it is necessary to invest in the ongoing rehabilitation and renewal of these assets. Funding is required to preserve and extend the life of the infrastructure, and to meet provincial and federal regulation requirements. Detailed scope of work for specific projects extends to a wide assortment of work, and includes retrofitting, rehabilitating and replacing equipment and assets due to age or condition; structural repairs; upgrades to improve functionality and increase redundancy; Health & Safety retrofits and specialized inspections.</p> <p>This program supports the Electrical Reliability project which is a key City initiative to building resiliency to increased power outages expected with increased extreme weather events.</p> <p>Detailed information and costs associated with specific components and projects are provided following this program summary.</p> <p>Forecasts are based on anticipated needs that will be detailed in future budget submissions.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
		Rate Supported	27,661	Rate Supported Debt		15,665	
		Develop. Charges	0	Develop. Charges Debt		0	
		Gas Tax	0	Gas Tax Debt		0	
		Forecast		2024	2025	2026	2027
Authority		43,326	30,317	17,450	17,450		
Spending Plan		21,663	29,356	30,085	21,023		
FTEs		0	0	0	0		
Operating Impact		0	0	0	0		

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Project(s) within a Program Information			\$000's
907382	ROPEC Aeration Blower Renewal	Class of Estimate: B) Design	8,021
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2023	
<p>The project is to complete repairs to the existing aeration blowers. The control elements are obsolete; new electrical soft starters will reduce stress on the (aging) existing motors and the plant electrical distribution system. Project design is underway, funds are for construction.</p>			
909158	ROPEC RSPS Motor & Drive Rehab	Class of Estimate: A) Pre-Tender	4,165
Category: Renewal of City Assets	Ward: 11	Year of Completion: 2024	
<p>At the Raw Sewage Pumping Station (RSPS), the pumping systems are 45 years old and have surpassed their life expectancy. The drives are obsolete and replacement of the pumps is required to return them to their design capacity (the flow output of the existing pumps is less than 80% capacity). The scope of this project is to remove and replace all six existing raw sewage pumping systems. This includes replacement of the pumps, motors, and drives and associated ancillary systems (electrical, instrumentation, controls, etc.). The project also includes repairs to the discharge piping and the inlet gates. Additional funding is required to complete the project.</p>			

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Project(s) within a Program Information			\$000's
911335 2024 Lab Equipment Replacement		Class of Estimate: D) Conceptual	
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>The wastewater treatment laboratory requires funding for the following equipment items in 2024 - a fume hood replacement, gas chromatography–mass spectrometry (GC/MS) replacement, colorimetric equipment replacement and a cold vapor atomic absorption (CVAA) mercury analyzer replacement.</p>			
911336 2024 ROPEC Capitalized Maintenance		Class of Estimate: D) Conceptual	
Category: Renewal of City Assets	Ward: 11	Year of Completion: 2026	
<p>The objective of this program is to manage the capitalized maintenance costs of the wastewater treatment plant.</p>			
911337 ROPEC Electrical Reliability		Class of Estimate: C) Planning	
Category: Renewal of City Assets	Ward: 11	Year of Completion: 2026	
<p>This project is to increase the reliability of the incoming electrical service and distribution system at ROPEC. The project includes replacement of the high voltage substation and replacement of two switchboards (SB02 & SB03). The project also includes the rehabilitation of the generator system including the addition of a diesel generator. Project design is underway, funds are for construction.</p> <p>Improving the electrical reliability of ROPEC is a key City initiative to building resiliency to increased power outages expected with increased extreme weather events.</p>			

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Project(s) within a Program Information			\$000's
911338	2024 ROPEC Roofing Rehabilitation Prog	Class of Estimate: D) Conceptual	1,750
Category: Renewal of City Assets	Ward: 11	Year of Completion: 2026	
<p>Several roofs at the plant have been identified as requiring replacement. The scope includes for replacement of the roofs on the most critical facilities in the worst condition. The up-keep and replacement of these roofs is paramount in preventing water infiltration and ensuring that the work environment of these facilities is kept safe, warm and dry.</p>			
911364	ROPEC - SCADA Rehab. & Upgrades 2024	Class of Estimate: C) Planning	675
Category: Renewal of City Assets	Ward: 11	Year of Completion: 2026	
<p>The Supervisory Control and Data Acquisition (SCADA) system is a computerized system used by Certified Operators to monitor and control the wastewater treatment system. The Operator monitors the critical components of the treatment process and is able to remotely operate equipment within the treatment plant and remote facilities such as pump stations. The SCADA system is crucial to the operation of the treatment system for monitoring key parameters required under provincial and federal legislation. This project re-investment is required to ensure efficient process operation, maintain asset functionality through equipment overhauls, be able to adapt to changing regulations, and take advantage of new technologies. The 2024 funding requirement is mainly for Programmable Logic Controller (PLC) replacement.</p>			

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Program Information			Financial Details				
Wet Weather Program			Class of Estimate: C) Planning				
Dept: Infrastructure & Water Services Department	Category: Renewal of City Assets	Ward: Multiple	Year of Completion: Various				
Reduces greenhouse gases?	No	2024 Request	3,000	Projected Yearend Unspent Bal.			0
Builds climate resiliency?	Yes - Major Contribution	Revenues	0	Debt			
<p>The Wet Weather Program is a comprehensive Wet Weather Infrastructure Management Plan (WW-IMP) to develop a coordinated approach to wet weather flow management within the urban area. The WW-IMP will develop programs that will focus on managing the capacity of the sewer systems, reduce the risk of property flooding, and reduce impacts related to combined sewer overflows. It will also look at key program supports, such as design guidelines and climate change adaptation. This program supports the overall implementation objectives of the Ottawa River Action Plan and the Infrastructure Master Plan.</p> <p>Detailed information and costs associated with specific non-integrated components and projects are provided following this program summary page.</p> <p>Forecasts are based on bulk allocations that will be detailed in future budget submissions. The funding allocation enables Asset Management to study the impacts on City assets and level of service provided to rate payers and recommends either further studies or projects to improve the City's climate change resilience.</p> <p>The Wet Weather Program is a key City initiative to reduce the increasing risks of flooding expected with climate change.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	
		Rate Supported	2,435	Rate Supported Debt		200	
		Develop. Charges	365	Develop. Charges Debt		0	
		Gas Tax	0	Gas Tax Debt		0	
		Forecast	2024	2025	2026	2027	
Authority	3,000	3,100	3,200	3,300			
Spending Plan	1,500	2,450	3,130	3,230			
FTEs	0	0	0	0			
Operating Impact	0	0	0	0			

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Project(s) within a Program Information			\$000's
911308	2024 ORAP Wet Weather IMP	Class of Estimate: C) Planning	3,000
Category: Renewal of City Assets	Ward: CW	Year of Completion: 2026	
<p>This project is required for the development of programs and project implementation needed to support the objectives of the Wet Weather Infrastructure Management Plan (WW-IMP). Once developed, these programs will define and prioritize the specific actions to be implemented, which will increase the capacity of the sewer systems; reduce the risk of property flooding; and reduce impacts related to combined sewer overflows. This project is considered for development charge (DC) funding pursuant to the 2014 Development Charge By-Law 2014-229. This project also includes the installation of Inlet Control Devices (ICDs) into catch basins throughout various areas in the City. The intent is to reduce sewer surcharge during major rainfall events, and to diminish the incidences of basement flooding as a result of sewer surcharge.</p>			

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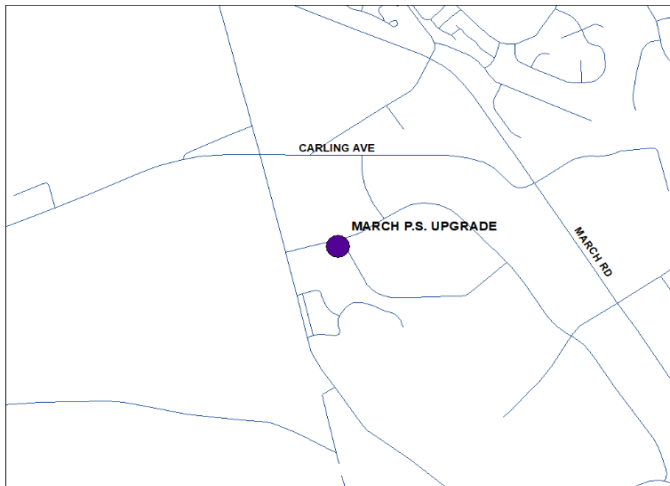
Program Information		Financial Details			
Wastewater Treatment-Growth		Class of Estimate: D) Conceptual			
Dept: Infrastructure & Water Services Department	Category: Growth	Ward: Multiple	Year of Completion: Various		
Reduces greenhouse gases?	No	2024 Request	4,800	Projected Yearend Unspent Bal. 0	
Builds climate resiliency?	Yes - Minor Contribution	Revenues	0	Debt	
<p>The Wastewater Treatment – Growth program provides for upgrades and expansion of processes within ROPEC to provide future capacity for projected flows and loads based on population growth within the City of Ottawa. Funding is required to sustain the continuous and reliable operation of ROPEC and to meet provincial and federal regulation requirements. The Infrastructure Master Plan (IMP) supports the OP by providing guidelines to identify demands of growth funding, which is provided through the Development Charges (DC) By-law to components of infrastructure rehabilitation supporting growth objectives.</p> <p>Detailed information and costs associated with specific components and projects are provided following this program summary.</p> <p>Forecasts are based on anticipated needs that will be detailed in future budget submissions.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt	0
		Rate Supported	0	Rate Supported Debt	0
		Develop. Charges	4,800	Develop. Charges Debt	0
		Gas Tax	0	Gas Tax Debt	0
		Forecast	2024	2025	2026
Authority	4,800	9,900	0	0	
Spending Plan	2,800	4,700	6,000	1,200	
FTEs	0	0	0	0	
Operating Impact	0	0	0	0	

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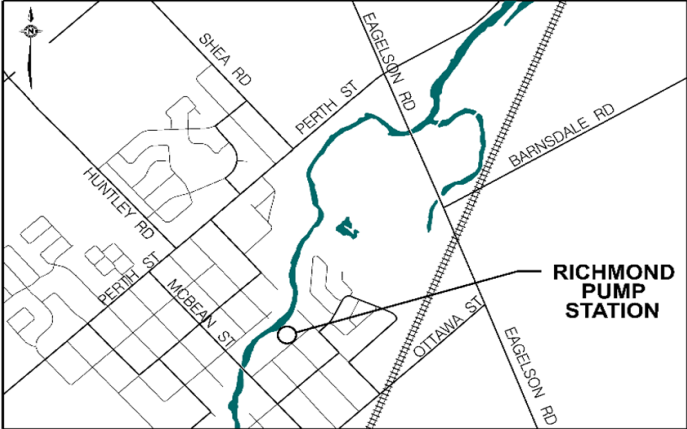
Project(s) within a Program Information			\$000's
911342	ROPEC Exp.of Chlorine Contact Tanks	Class of Estimate: D) Conceptual	3,300
Category: Growth	Ward: 11	Year of Completion: 2027	
<p>The existing chlorine contact tanks (CCT) do not provide adequate firm capacity and expansion is required to meet population growth. Project is to begin design of the construction of two new CCTs. The project design will consider expected increases in rainfall to build resiliency to flooding.</p>			
911369	ROPEC - Outfall Expansion	Class of Estimate: D) Conceptual	1,500
Category: Growth	Ward: 11	Year of Completion: 2027	
<p>An expansion of the ROPEC Outfall is required to minimize bypassing plant treatment under higher Ottawa River levels. Recent flooding events have identified a need to address the Outfall Capacity in the near term. This project is for preliminary design work.</p>			

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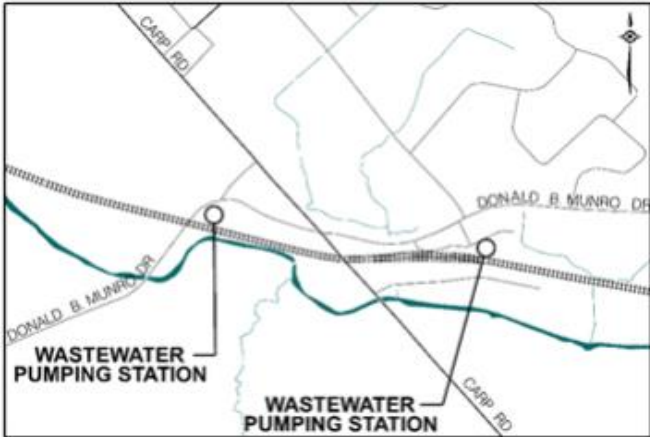
Project Information			Financial Details			
904988 March PS Conversion			Class of Estimate: A) Pre-Tender			
Dept:	Infrastructure & Water Services Department	Category: Growth	Ward 4	Year of Completion: 2025		
Reduces greenhouse gases?	No	2024 Request		1,652	Projected Yearend Unspent Bal. 1,196	
Builds climate resiliency?	Yes - Minor Contribution	Revenues	0	Debt		
<p>Replacement of the March wastewater pumping station is required to service future development in the North Kanata growth area. This project involves conversion of the existing pump station to a “low lift” configuration, which will increase operating capacity and reduce operating costs. The construction of the station is underway, however additional funds are needed to cover costs related to unexpected groundwater conditions affecting reconstruction of the connecting sewer.</p> <p>Increased pump station capacity and back-up power help reduce climate risks from increased precipitation volume which can increase flows in the sanitary sewer system, and extreme events which can result in power failures.</p>		Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0
		Rate Supported Develop. Charges	876	Rate Supported Debt		0
		Gas Tax	0	Develop. Charges Debt		776
		Gas Tax Debt				0
		Forecast		2024	2025	2026
Authority		1,652	0	0	0	
Spending Plan		2,152	500	196	0	
FTEs		0	0	0	0	
Operating Impact		0	0	0	0	



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Project Information			Financial Details				
909992 Richmond Pump Station			Class of Estimate: A) Pre-Tender				
Dept: Infrastructure & Water Services Department	Category: Growth	Ward 21	Year of Completion: 2026				
Reduces greenhouse gases?	No	2024 Request	1,236	Projected Yearend Unspent Bal.			509
Builds climate resiliency?	Yes - Minor Contribution	Revenues	0	Debt			
<p>To accommodate anticipated new development in the Village of Richmond there is a need to upgrade and renew the existing wastewater pumping station. Detailed design work for the Richmond wastewater pumping station upgrade/renewal is completed and project has been tendered. Previous budget authority has been approved for this project but is not sufficient to cover the current project capital costs based on increased construction costs.</p> <p>Increased pump station capacity and back-up power help reduce climate risks from increased precipitation volume which can increase flows in the sanitary sewer system, and extreme events which can result in power failures.</p>	Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt			0	
	Rate Supported Develop. Charges	544	Rate Supported Debt			0	
	Gas Tax	692	Develop. Charges Debt			0	
		0	Gas Tax Debt			0	
	Forecast	2024	2025	2026	2027		
Authority	1,236	0	0	0	0	0	
Spending Plan	1,127	371	247		0	0	
FTEs	0	0	0	0	0	0	
Operating Impact	0	0	0	0	0	0	
							

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Project Information			Financial Details				
910076 Carp Wastewater PS Upgrade/Overflow			Class of Estimate: C) Planning				
Dept: Infrastructure & Water Services Department	Category: Growth	Ward 5	Year of Completion: 2024				
Reduces greenhouse gases?	No	2024 Request	1,031	Projected Yearend Unspent Bal.			4,574
Builds climate resiliency?	Yes - Minor Contribution	Revenues	464	Debt			
<p>This capital account is to cover the costs of wastewater pump station capacity improvements to accommodate growth within the Village of Carp and to fund construction of emergency overflow facilities. The two pumping stations in Carp were designed and constructed prior to the development of the current City design guidelines and do not have emergency overflows, which are necessary to protect homes from basement flooding during extreme wet weather conditions or major system failures. This 2024 budget request is to fund the construction of the main pumping station overflow as well as interim improvements to the station to provide sufficient capacity for short-term growth in the village.</p> <p>Increased pump station capacity and back-up power help reduce climate risks from increased precipitation volume which can increase flows in the sanitary sewer system, and extreme events which can result in power failures.</p>	Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt		0	0	
	Rate Supported Develop. Charges	567	Rate Supported Debt		0	0	
	Gas Tax	0	Develop. Charges Debt		0	0	
		0	Gas Tax Debt		0	0	
	Forecast	2024	2025	2026	2027		
Authority	1,031	0	0	0	0	0	
Spending Plan	3,516	1,383	706	0	0	0	
FTEs	0	0	0	0	0	0	
Operating Impact	0	0	0	0	0	0	
							

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Project Information			Financial Details				
910906 2023 Pump Stations Capacity Increase			Class of Estimate: C) Planning				
Dept:	Infrastructure & Water Services Department	Category: Growth	Ward: 4, 19, 21, 22	Year of Completion: 2026			
Reduces greenhouse gases?		No	2024 Request	4,897	Projected Yearend Unspent Bal. 5,120		
Builds climate resiliency?		Yes - Minor Contribution	Revenues	0	Debt		
<p>This project was identified in the Infrastructure Master Plan and is needed to provide sufficient wastewater pumping capacity to meet the needs of development at various locations across the City. This project includes capacity upgrade for 5 Pump Stations: Briar Ridge PS, Tenth Line PS, Leitrim PS, Forest Valley PS, and Manotick PS. The project will increase the capacity of each PS from the existing installed capacity to the full rated capacity in accordance with the original station designs. The work at these stations is phased over time. The funding will cover the growth-related costs for construction of the Tenth Line PS upgrades and detailed design process for the Manotick PS Phase 1 capacity expansion. The renewal-related costs for the works is covered by a separate account which is funded by the City's rate budget. Increased pump station capacity and back-up power help reduce climate risks from increased precipitation volume which can increase flows in the sanitary sewer system, and extreme events which can result in power failures.</p>			Tax Supported/ Dedicated	0	Tax Supported/ Dedicated Debt	0	
			Rate Supported	0	Rate Supported Debt	0	
			Develop. Charges	4,897	Develop. Charges Debt	0	
			Gas Tax	0	Gas Tax Debt	0	
			Forecast	2024	2025	2026	2027
			Authority	4,897	1,324	0	0
			Spending Plan	8,897	2,444	0	0
FTEs	0	0	0	0			
Operating Impact	0	0	0	0			

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Project Description	2024	2025	2026	2027	Total
Drinking Water Services					
Renewal of City Assets					
906664 Hurdman Bridge PS Renewal	10,600	0	0	0	10,600
908076 Large Water Meters Changeout Program	2,300	750	500	500	4,050
908908 Small Water Meters Changeout Program	100	1,650	1,900	1,900	5,550
908909 Advanced Metering Infra. (AMI) Changeout	3,025	3,050	3,075	3,075	12,225
908995 Advanced Metering Infra. (AMI) Software	0	0	500	0	500
908996 Meter Service Mobility	50	0	150	0	200
909671 2020 Infrastructure Master Plan (Water)	0	0	325	552	877
909735 Carling Ave (Moodie-Shirleys Bay)	0	0	17,000	0	17,000
909930 Water & Sewer Utility Billing System	0	0	500	0	500
909974 Lemieux High Lift PS Structural Upgrades	4,914	0	0	0	4,914
910251 Britannia High Voltage Project	2,677	0	0	3,950	6,627
910277 Britannia Diesel Gen & Fuel System Rehab	0	0	0	65	65
910396 Geoscience Studies	267	276	281	288	1,112
910525 Communal Well System Rehab 2022	0	0	10,705	2,500	13,205
910529 New Vehicles Drinking Water 2022	785	100	100	150	1,135
910674 Lemieux MCC-3M and HLE1&2 Motor Replace	3,760	0	0	0	3,760
910801 Lemieux Expansion Joint Rehab	800	0	0	0	800
910894 Prince of Wales (Green Valley - DE)	1,230	0	0	0	1,230
911086 Water Operations Facilities Rehab	0	60	80	100	240
911303 2024 Water System Improvements	8,500	8,000	12,380	9,000	37,880
911304 2024 WM Transmission/Distribution Rehab	5,500	5,500	5,750	6,000	22,750
911305 2024 Water Structures - Inspections	40	40	45	45	170
911312 2024 Water Efficiency	150	150	175	175	650
911313 2024 Water Storage Tanks & Reservoirs	7,938	6,354	4,317	0	18,609
911314 2024 DWS Capitalized Maintenance	1,400	1,400	1,400	1,400	5,600
911316 2024 Water Treatment Rehab	6,480	14,365	8,621	13,150	42,616
911317 2024 Water Pumping Station Rehab	770	7,500	3,910	5,000	17,180
911318 2024 Lead Pipe Replacement Program	500	1,250	1,250	1,250	4,250
911319 2024 Cathodic Protection Program	150	150	150	150	600
911320 2024 Water Distribution System Improv.	3,500	250	250	250	4,250
911321 2024 Ops Condition Assess Critical Link	2,793	2,440	2,490	2,850	10,573
Renewal of City Assets Total	68,229	53,285	75,854	52,350	249,718

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Project Description	2024	2025	2026	2027	Total
Growth					
900631 Carlington Heights Pumping Stn Expansion	1,236	0	0	0	1,236
902206 Ottawa South Pumping Station Upgrade	1,751	0	0	0	1,751
903295 Brittany Pumping Station	309	0	0	0	309
904916 Kanata West Feedermain	5,088	0	0	0	5,088
904918 Limebank Feedermain	0	0	3,771	15,391	19,162
904982 Zone 2W West March Rd 406 to 610 Upgrade	4,776	0	0	0	4,776
907100 Carp Well Capacity Increase	515	0	0	0	515
907101 River Ridge 3C Elevated Tank	0	7,064	0	29,402	36,466
907467 SUC Greenbank	0	9,763	0	0	9,763
910900 2023 Off Site Reliability Links	516	530	541	552	2,139
910902 2023 Rural Servicing Strategy	104	107	271	276	758
910903 2023 Water & Wastewater Studies	516	530	541	292	1,879
911365 Lemieux-Inclined plate settlers Basins	0	0	0	3,924	3,924
Growth Total	14,811	17,994	5,124	49,837	87,766
Drinking Water Services Total	83,040	71,279	80,978	102,187	337,484
Integrated Water & Wastewater					
Renewal of City Assets					
910887 2023 Easement Agreements Updates	3,000	4,000	4,000	5,000	16,000
911285 2024 Hydraulic Structures	750	1,000	1,100	1,200	4,050
911286 2024 Sewer Repairs / Improvements	8,000	9,000	10,000	12,500	39,500
911287 2024 Sewer Trenchless Rehab	4,000	3,500	3,750	4,000	15,250
911348 2024 Sewer & Water Inspect and Data Man.	1,400	1,400	1,400	1,400	5,600
911362 Tech Roadmap, Data Strategy & Decision	250	250	0	0	500
911363 2024 Technology Need and Mobility Proj	1,500	0	0	0	1,500
911368 Technology Improvement Initiatives	2,490	0	0	0	2,490
Renewal of City Assets Total	21,390	19,150	20,250	24,100	84,890
Integrated Water & Wastewater Total	21,390	19,150	20,250	24,100	84,890

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Project Description	2024	2025	2026	2027	Total
Wastewater Services					
Renewal of City Assets					
907060 ROPEC Secondary Clarifier Upgrades	0	2,000	0	0	2,000
907382 ROPEC Aeration Blower Renewal	8,021	0	0	0	8,021
908250 Infrastructure Planning Information Mgmt	0	0	216	222	438
909158 ROPEC RSPS Motor & Drive Rehab.	4,165	0	0	0	4,165
909746 Acres Road PS Phase 2 Renewal	0	2,575	0	10,719	13,294
910048 2021 Infrastructure Master Plan (Sewer)	0	0	0	552	552
910279 WWC Diesel Gen & Fuel System Rehab	800	800	800	800	3,200
910693 SSRJB Decommissioning Functional Design	0	8,438	0	0	8,438
910917 Wastewater Drainage Roofing 2023	0	190	0	150	340
911029 ROPEC HVAC Rehab	0	1,000	0	0	1,000
911197 2024 Pump Stations Capacity Renewal	2,123	713	189	850	3,875
911308 2024 ORAP Wet Weather IMP	3,000	3,100	3,200	3,300	12,600
911322 2024 New Vehicles Wastewater	385	300	100	100	885
911323 2024 Protective Plumbing Program	150	150	150	250	700
911324 2024 Forcemain Condition Assess & Rehab	560	650	375	375	1,960
911325 2024 WWC Forcemain Rehab	250	250	250	250	1,000
911327 2024 Collection Sys CondAssess Large Dia	1,550	1,920	1,545	1,610	6,625
911328 2024 Collection Sys CondAssess Small Dia	2,000	2,000	2,000	2,000	8,000
911329 2024 Sewer Lateral Repairs	3,500	3,500	4,500	4,500	16,000
911330 2024 Linear Sewage System Improvements	2,000	2,000	2,000	2,000	8,000
911331 2024 Flow Monitoring System Rehab	200	200	200	200	800
911332 2024 Sewage Pumping Station Rehab Prog	5,734	8,106	4,136	3,662	21,638
911333 2024 Wastewater Collection Maintenance	725	1,000	1,250	1,250	4,225
911334 ROPEC - Sewage Treatment Rehab Prog 2024	5,665	27,967	15,000	14,900	63,532
911335 2024 Lab Equipment Replacement	350	350	350	350	1,400
911336 2024 ROPEC Capitalized Maintenance	1,000	1,000	1,100	1,200	4,300
911337 ROPEC Electrical Reliability	21,700	0	0	0	21,700
911338 2024 ROPEC Roofing Rehabilitation Prog	1,750	0	0	0	1,750
911355 2024 Sanitary Sewer Rehab Prog	1,600	1,700	0	0	3,300
911364 ROPEC - SCADA Rehab. & Upgrades 2024	675	1,000	1,000	1,000	3,675
911385 Infrastructure Capacity Management Prog.	0	530	541	552	1,623
Renewal of City Assets Total	67,903	71,439	38,902	50,792	229,036

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Project Description	2024	2025	2026	2027	Total
Growth					
904988 March PS Conversion	1,652	0	0	0	1,652
907463 Stittsville PS Gravity Connect	0	1,349	0	5,613	6,962
908247 Richmond Forcemain Expansion	0	3,677	0	0	3,677
908557 FEA2024 EUC Sanitary Sewer System	110	350	0	0	460
909728 Acres Road PS Upgrade Phase 2 Growth	0	2,377	0	9,894	12,271
909992 Richmond Pump Station	1,236	0	0	0	1,236
910076 Carp Wastewater PS Upgrade/Overflow	1,031	0	0	0	1,031
910906 2023 Pump Stations Capacity Increase	4,897	1,324	0	0	6,221
911342 ROPEC Exp.of Chlorine Contact Tanks	3,300	9,900	0	0	13,200
911366 ROPEC Capacity increase secondary treat	0	0	0	1,260	1,260
911367 ROPEC Expansion of Anaerobic Digestion	0	0	0	15,390	15,390
911369 ROPEC - Outfall Expansion	1,500	0	0	0	1,500
Growth Total	13,726	18,977	0	32,157	64,860
Wastewater Services Total	81,629	90,416	38,902	82,949	293,896
Stormwater Services					
Renewal of City Assets					
908252 Stormwater Mgmt Retrofit Master Plan	309	318	325	331	1,283
908618 CWWF Convent Glen North Storm Sewer	36,930	0	0	0	36,930
911169 2024 New Vehicles Stormwater	80	0	0	0	80
911196 2024 Stormwater Management Retrofit	1,030	2,653	2,705	4,416	10,804
911198 2024 Flood Plain Mapping	335	371	476	442	1,624
911294 2024 Drainage Culverts - CW	12,378	13,372	14,006	14,790	54,546
911296 2024 Culverts Scoping Pre/Post Eng.	800	850	900	1,000	3,550
911297 2024 Drainage Culverts - Site-Specific	1,500	1,500	1,600	1,700	6,300
911298 2024 Drainage Culv-Site-Spec Other	250	255	260	153	918
911299 2024 Drainage Culverts Assessment	300	300	300	300	1,200
911306 2024 Storm and Surface Water Rehab	2,500	1,500	1,500	1,500	7,000
911307 2024 Drainage System Renewal	4,000	3,500	0	0	7,500
911326 2024 Stormwater Pumping Station Rehab Pr	600	2,334	0	0	2,934
911339 2024 Stormwater Mgmt: Rehab&Enviro Compl	2,800	2,290	1,500	1,500	8,090

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Project Description	2024	2025	2026	2027	Total
911340 2024 Linear Storm System Improvements	2,000	1,500	1,500	1,500	6,500
911341 2024 Municipal Drain Improvements	650	50	50	50	800
Renewal of City Assets Total	66,462	30,793	25,122	27,682	150,059
Growth					
909730 2020 Stormwater Master Planning	258	266	270	276	1,070
Growth Total	258	266	270	276	1,070
Stormwater Services Total	66,720	31,059	25,392	27,958	151,129
Grand Total	252,779	211,904	165,522	237,194	867,399

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Project Description	Authority	Expenditures	Unspent Cash Balance	Total Contractual Obligations	Unspent Balance including Contractual Obligations
Drinking Water Services					
900631 Carlington Heights Pumping Stn Expansion	19,336	2,472	16,864	2,609	14,255
900632 Strandherd Road Watermain	7,865	5,403	2,461	198	2,264
901144 Glen Cairn Reservoir Expansion	354	0	354	0	354
902206 Ottawa South Pumping Station Upgrade	19,227	2,769	16,458	1,373	15,085
903295 Brittany Pumping Station	9,089	7,203	1,886	474	1,412
903298 DCA -Shadow Ridge Exploratory/Well	99	96	3	0	3
904916 Kanata West Feedermain	3,092	194	2,898	0	2,898
904918 Limebank Feedermain	3,374	0	3,374	0	3,374
904972 Glen Cairn PS Upgrade	1,322	0	1,322	0	1,322
904975 Barrhaven PS Conversion to 3C	4,873	4,429	444	20	424
904981 3C/2W Pressure Zone Separation	5,822	4,367	1,455	0	1,455
904982 Zone 2W West March Rd 406 to 610 Upgrade	600	0	600	0	600
905429 DCA-Mer Bleue Rd Reliability Links	1,232	677	555	0	555
905681 Water System SCADA & Instrument Rehab	2,410	2,378	32	15	17
905992 Manotick Supply Watermain	13,042	11,380	1,662	389	1,274
906358 Transmission Mains Condition Assessment	1,600	1,600	0	0	0
906539 Large Transmission Mains Risk Mitigation	497	444	53	55	(2)
906662 CWWF Village/Carp Water Quality TreatFac	8,480	7,039	1,441	269	1,172
906664 Hurdman Bridge PS Renewal	27,781	2,281	25,500	1,762	23,738
906665 Lemieux WPP Intake Ice Mgmt	32,671	1,510	31,161	375	30,786
906795 Condition Assess - Critical System Links	5,000	4,889	111	117	(6)
907100 Carp Well Capacity Increase	1,037	0	1,037	0	1,037
907101 River Ridge 3C Elevated Tank	514	4	510	0	510
907455 Hurdman Bridge/Billings BridgePS Upgrade	1,700	0	1,700	0	1,700
907456 Manotick North Island Link	9,356	7,648	1,708	277	1,431
907467 SUC Greenbank	4,930	132	4,798	75	4,722
907476 WPP Chemical Systems Modifications	2,655	2,298	357	114	243
907568 EAM Maximo Data Optimization	1,004	658	346	231	115
907654 Ops Condition Assess-Critical Sys Links	2,275	1,843	432	412	21
907655 Communal Well System Rehab 2018	487	465	22	22	(1)
907795 Business Technology Opportunities	3,600	3,234	366	136	230
908076 Large Water Meters Changeout Program	4,350	2,167	2,183	0	2,183
908080 Water Distribution Sys Improvements 2019	1,000	862	138	0	138

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908257 DCA O/S Kanata West Transmission Mains	907	0	907	0	907
908379 Britannia WPP Expansion Joint Rehab	200	0	200	0	200
908479 Carp Diesel Pump Upgrades	1,255	1,158	97	33	64
908511 2017 Watermain Improvements	1,836	1,731	105	88	18
908613 Bank St (Rideau Rd-Mitch Owens)	8,970	7,671	1,299	29	1,270
908615 Leitrim Rd (Bank-550m East)	1,700	0	1,700	0	1,700
908633 Enhanced Corrosion Control	6,118	127	5,991	0	5,991
908745 CWWF [Design] Lemieux Island WPP Intake	2,400	2,170	230	215	15
908866 DWS Concrete Repairs	150	141	9	0	9
908908 Small Water Meters Changeout Program	19,875	9,596	10,279	6,047	4,232
908909 Advanced Metering Infra. (AMI) Changeout	4,775	9	4,766	0	4,766
908931 2018 Buildings-Water Services	1,000	839	161	148	12
908978 2018 Transmission/Distribution WM Rehab	1,090	391	699	204	495
908981 Lemieux island Pipe Bridge SN 017160	3,640	862	2,778	0	2,778
908995 Advanced Metering Infra. (AMI) Software	650	0	650	0	650
908996 Meter Service Mobility	850	722	128	14	114
909003 DWS Ladder Trolley & Rail System Upgrade	600	314	286	1	284
909132 2018 Rural Servicing Strategy	205	167	38	7	31
909133 2018 Water & Wastewater EA Studies	255	226	29	14	15
909134 2018 Infrastructure Master Plan (Water)	501	233	268	4	264
909189 Britannia Highlift Flowmeters	1,786	1,306	480	82	398
909191 DWS SCADA secondary network replacement	725	630	95	38	57
909208 Lemieux & Britannia G2 Generator Constru	20,000	923	19,077	13,576	5,501
909265 Britannia Window/Roof Repairs	2,488	1,326	1,162	680	482
909279 Watermain: Albert-Slater (Bay to Elgin)	100	0	100	0	100
909352 2019 Groundwater Studies	1,319	903	416	320	96
909353 2019 Rural Servicing Strategy	250	3	247	3	245
909354 2019 Water & Wastewater EA Studies	160	98	62	61	1
909371 2019 Buildings-Water Services	575	487	88	15	73
909392 2019 WM Transmission/Distribution Rehab	3,944	3,586	358	3	354
909416 Water Pumping Station Facility Rehab2019	150	37	113	16	97
909560 Britannia LLP & HLP Motors and Drives	7,275	175	7,100	0	7,100
909573 DWS SCADA Network Upgrade	2,352	26	2,326	1,668	658
909574 DWS SCADA HMI Upgrade	5,129	323	4,806	718	4,089

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Project Description	Authority	Expenditures	Unspent Cash Balance	Total Contractual Obligations	Unspent Balance including Contractual Obligations
909576 Lemieux Settled Water Ducts & Outfall Re	1,742	311	1,431	91	1,340
909598 Kings Park Well 1 Electrical Service Upg	306	127	179	1	179
909648 Lemieux Protective Relays Upgrades	1,250	0	1,250	0	1,250
909649 WTP Surge Protection Improvements	1,147	139	1,008	608	400
909671 2020 Infrastructure Master Plan (Water)	665	417	248	26	223
909672 2020 Off Site Reliability Links	160	0	160	0	160
909673 2020 Groundwater Studies	380	231	149	131	18
909713 Water System Improvements	6,000	3,533	2,467	453	2,014
909714 2020 WM Transmission/Distribution Rehab	4,087	3,688	399	223	176
909735 Carling Ave (Moodie-Shirleys Bay)	3,000	0	3,000	0	3,000
909795 Water Distribution Sys Improvements 2020	1,325	523	802	118	684
909798 Water Pumping Station Facility Rehab2020	1,450	30	1,420	7	1,413
909800 Water Treatment Rehab 2020	1,310	1,298	12	3	9
909804 Critical Links Risk Mitigation Meas 2020	500	326	174	7	167
909901 WPP Electrical Preparedness Improvements	180	46	134	0	134
909905 Britannia Flood Initiatives & SW Mngmt	100	4	96	0	96
909930 Water & Sewer Utility Billing System	1,400	450	950	246	704
909966 Lemieux High Lift Suction Header	200	154	46	0	46
909974 Lemieux High Lift PS Structural Upgrades	125	0	125	0	125
910006 Shadow Ridge Wells Rehab	7,903	2,469	5,434	1,546	3,888
910050 Manotick Supply Watermain - Phase 2	25,598	1,005	24,593	13,421	11,172
910051 2021 Off Site Reliability Links	164	0	164	0	164
910117 2021 Water System Improvements	7,500	3,401	4,099	2,712	1,386
910118 2021 WM Transmission/Distribution Rehab	5,500	3,225	2,275	650	1,625
910119 Stanley Ave. (Sussex - Union St)	2,150	1,438	712	321	391
910135 Water Pumping Station Facility Rehab2021	417	1	416	53	363
910136 Water Treatment Rehab 2021	886	817	69	88	(19)
910139 Cathodic Protection 2021	1,200	773	427	42	385
910140 Ops Condition Assess-Critical Sys Links	900	898	2	2	(0)
910233 Britannia Elevators Rehab	900	585	315	98	216
910251 Britannia High Voltage Project	500	91	409	288	120
910255 Lemieux PA System Upgrades	552	439	113	10	104
910256 2021 Spring Freshet Contingency Planning	630	578	52	21	32
910260 Wash Water Tank and Pump Room Rehab	830	178	652	29	623

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910276 Headworks Hardware Upgrade	140	58	82	58	24
910277 Britannia Diesel Gen & Fuel System Rehab	491	407	83	72	11
910278 Lemieux Diesel Gen & Fuel System Rehab	200	16	184	100	84
910310 Backflow Prevention Upgrades Water Facil	500	49	451	74	376
910327 Reliability Engineering Water Remotes	473	244	229	119	110
910328 Reliability Engineering Water Treatment	845	255	590	139	451
910345 Remotes 5 Year Electrical Maintenance	800	464	336	28	309
910346 Lemieux WPP Relays & WPPs Elec. Coord	400	222	178	83	94
910357 Lemieux 5 yr MVLV PM	750	633	117	50	67
910370 Britannia Sodium Hypo Pumps Upgrade	250	158	92	0	92
910381 DMZ Environment Upgrades	150	79	71	43	28
910385 Well System Inspection and Rehab	1,125	580	545	68	476
910388 SolarWinds Network Upgrades	150	43	107	14	93
910395 2022 Off Site Reliability Links	167	0	167	0	167
910396 Geoscience Studies	553	29	524	0	524
910397 Rural Servicing&Source Water Protection	696	0	696	118	578
910399 2022 Water & Wastewater Studies	1,149	0	1,149	118	1,031
910411 2022 Buildings-Water Services	150	0	150	7	143
910456 2022 Water System Improvements	7,000	1,193	5,807	3,735	2,072
910457 2022 WM Transmission/Distribution Rehab	5,000	645	4,355	440	3,914
910458 2022 Water Structures - Inspections	40	13	27	0	27
910459 Bank St (Leitrim - Dunskipper)	4,950	0	4,950	0	4,950
910460 Fuel Oil Tank Incentive Program	260	76	184	33	151
910496 Protective Lead Service Replace Prg 2022	799	260	538	0	538
910497 Cathodic Protection 2022	1,200	1,191	9	4	5
910498 Critical Links Risk Mitigation Meas 2022	500	82	418	57	361
910499 Water Pumping Station Facility Rehab 2022	1,360	0	1,360	16	1,344
910525 Communal Well System Rehab 2022	1,711	146	1,565	28	1,537
910526 Water Treatment Rehab 2022	5,282	566	4,716	221	4,495
910527 Water Sys SCADA & Instrument Rehab 2022	3,000	19	2,981	0	2,981
910528 Water Efficiency 2022	150	81	69	0	69
910529 New Vehicles Drinking Water 2022	176	92	84	0	84
910668 Lem & Brit Operator Room Ergonomics	889	33	856	0	856
910674 Lemieux MCC-3M and HLE1&2 Motor Replace	790	123	667	563	105

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Project Description	Authority	Expenditures	Unspent Cash Balance	Total Contractual Obligations	Unspent Balance including Contractual Obligations
910691 Lemieux Island Hydro Room Rehab	175	5	170	11	159
910723 Lemieux Asphalt Replacement Phase 1	1,300	665	635	147	487
910765 Carp Hypo Pump & HVAC Rehab	200	85	115	0	115
910768 G3 Fan Replacement	250	11	239	11	228
910769 Lemieux Hypo Pump Replacement	250	92	158	0	158
910801 Lemieux Expansion Joint Rehab	1,200	70	1,130	134	996
910810 2023 Buildings-Water Services	100	0	100	0	100
910855 2023 Ops Cond Assess-Critical Sys Links	1,875	126	1,749	1,398	350
910858 Water Treatment Rehab 2023	5,736	10	5,726	0	5,726
910860 Water Efficiency 2023	150	24	126	0	126
910872 Water Storage Tanks & Reservoirs 2023	2,349	0	2,349	0	2,349
910884 DWS Capitalized Maintenance 2023	400	35	365	12	353
910893 York St - Byward Market Sq	470	0	470	0	470
910894 Prince of Wales (Green Valley - DE)	530	0	530	0	530
910895 2023 Water System Improvements	7,500	0	7,500	0	7,500
910896 2023 WM Transmission/Distribution Rehab	5,500	0	5,500	0	5,500
910900 2023 Off Site Reliability Links	170	0	170	0	170
910903 2023 Water & Wastewater Studies	529	0	529	0	529
911086 Water Operations Facilities Rehab	1,580	249	1,331	297	1,034
911130 Richmond West Reservoir Expansion	100	7	93	0	93
Drinking Water Services Total	457,320	150,935	306,385	62,299	244,086
Integrated Roads, Water & Wast					
908576 Larkin-Larose-Lepage	7,434	6,807	627	567	60
Integrated Roads, Water & Wast Total	7,434	6,807	627	567	60
Integrated Water & Wastewater					
906899 Sewer Access & Outfalls	25,707	15,180	10,528	468	10,060
907501 SAP Integration & Mobility Deployment	6,105	6,042	63	0	63
908484 2017 Sewer & Water Repairs/Improvements	2,620	2,384	236	0	236
908942 2018 Sewer & Water Repairs/Improvements	5,000	4,858	142	23	118
909375 2019 Sewer Access & Outfalls	2,000	1,073	927	56	870
909376 2019 Sewer Repairs / Improvements	9,821	8,516	1,305	20	1,286
909377 2019 Sewer Trenchless Rehab	4,400	2,062	2,338	24	2,314

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909403 Chapman Blvd (Dorval-Othello)	600	0	600	0	600
909695 2020 Sewer Repairs / Improvements	10,777	9,447	1,330	86	1,244
909696 2020 Sewer Trenchless Rehab	1,500	1,476	24	16	8
910078 2021 Sewer Repairs / Improvements	9,504	3,566	5,938	1,885	4,053
910079 2021 Sewer Trenchless Rehab	4,500	795	3,705	407	3,298
910435 McLeod (Elgin - Metcalfe)	1,200	361	839	839	0
910436 Riverside Dr Sewer Industrial-Transitway	4,560	1,578	2,982	709	2,272
910437 Easement Agreements Update	4,000	8	3,992	0	3,992
910438 2022 Hydraulic Structures	1,000	0	1,000	0	1,000
910439 2022 Sewer Repairs / Improvements	7,000	580	6,420	2,236	4,184
910440 2022 Sewer Trenchless Rehab	3,000	77	2,923	53	2,870
910441 2022 Sewer CCTV Engineering	800	174	626	0	626
910552 Data Analytics Roll Out Water Services	130	0	130	0	130
910554 Maximo Scheduler	500	124	376	31	345
910555 Water and Wastewater Plants Mobility	500	0	500	0	500
910887 2023 Easement Agreements Updates	5,000	0	5,000	0	5,000
910888 2023 Hydraulic Structures	500	0	500	0	500
910889 2023 Sewer Repairs / Improvements	7,000	348	6,652	61	6,591
910890 2023 Sewer Trenchless Rehab	3,000	0	3,000	0	3,000
910891 2023 Sewer&Watermain Inspec&Data Mngmt	1,772	0	1,772	0	1,772
Integrated Water & Wastewater Total	122,496	58,649	63,848	6,915	56,933
Stormwater Services					
900812 DCA-Cardinal Creek-Stormwater Facility	24,856	22,543	2,313	0	2,313
900814 DCA-EUC SW Pond 1	7,810	7,254	556	0	556
903230 DCA-SWM Ponds E 1&2 Shirley's Brook	3,250	2,482	768	0	768
903250 DCA-Storm Water Pond - Monahan Drain	8,686	7,825	861	0	861
903324 Kennedy Burnett SW Pond	16,310	12,531	3,779	2,816	963
903328 DCA-Area W-2 Shirleys Brook W SWM Pond 1	1,284	780	503	0	503
903940 Carp River Restoration	6,361	5,693	668	0	668
904470 LI-Britannia Villge-OttRivr FloodProtect	1,945	1,875	70	75	(5)
905792 Manotick Special Des Area SW Monitoring	74	26	48	0	48
906194 Municipal Drain Improvements	258	157	101	0	101
907395 Municipal Drain Improvements - 2016	1,037	873	165	66	99

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907485 2019 Stormwater Master Planning	250	289	(39)	10	(50)
907528 DCA-Riverside South SW Treatment Chamber	421	244	177	0	177
907529 DCA-Leitrim SW Pond 2	18,607	7,186	11,421	0	11,421
907535 DCA-Leitrim Pond 2 Trunk Storm Sewer	4,389	3,261	1,128	0	1,128
907536 DCA-Riverside South SW Pond 3	18,797	0	18,797	0	18,797
907537 DCA-Riverside S. Pond3 Trunk Storm Sewer	10,051	0	10,051	0	10,051
907538 DCA-Riverside South - Tributary No. 3	1,165	0	1,165	0	1,165
907539 DCA-Riverside South - Tributary No. 4	499	0	499	0	499
907540 DCA-Riverside South - Tributary No. 7A	403	0	403	0	403
907541 DCA-Riverside South - Tributary No. 7B	876	0	876	0	876
907542 DCA-Riverside South - Tributary No. 10	1,489	0	1,489	0	1,489
907543 DCA-Riverside South - Fish Habitat	2,809	0	2,809	0	2,809
907558 DCA-N5 Ultimate SW Pond	14,229	11,174	3,055	0	3,055
907560 DCA-EUC SW Pond 1 Trunk Sewers	11,045	611	10,434	0	10,434
907561 DCA-EUC SW Pond 3 Trunk Sewers	1,700	554	1,146	0	1,146
907562 DCA-Leitrim SW Pond 1 Trunk Sewers	14,074	10,140	3,934	0	3,934
907563 DCA-Riverside South SW Pond2 Trunk Sewer	5,306	381	4,925	0	4,925
907570 Hazeldean Municipal Drain	51	11	41	0	41
907602 DCA-Glou. EUC SWM Pond 1 Modification	6,864	5,698	1,166	0	1,166
907603 DCA-Glou. EUC SWM Pond 1 Fish Habitat	1,132	1,036	96	0	96
907718 Kizell Municipal Drain	2,418	422	1,995	112	1,883
907720 Cranberry Creek Municipal Drain	1,303	404	899	188	711
907805 DCA-Riverside South Pond 5	15,257	583	14,674	1	14,672
907900 DCA-Mud Creek Erosion Monito E3 Glou EUC	406	117	289	101	188
907952 DCA-Monahan Drain Strmwter FacilityRehab	2,400	1,561	839	0	839
908084 ORAP-Water Environment Strategy (WES)PH2	2,619	1,823	796	323	473
908087 John Taylor Municipal Drain	61	54	7	1	6
908252 Stormwater Mgmt Retrofit Master Plan	2,180	537	1,643	82	1,561
908360 Eastboro Municipal Drain	1,706	1,432	274	147	127
908361 Seabrook Municipal Drain	118	57	61	54	6
908386 Taylor Creek Erosion Works Phase 2	279	0	279	0	279
908427 Thomas Baxter Municipal Drain	72	17	55	0	55
908618 CWWF Convent Glen North Storm Sewer	3,925	941	2,984	402	2,582
908619 Graham Creek Storm Sewer	16,756	11,959	4,797	1,782	3,015

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908817 McKinnons Creek Municipal Drain	1,789	244	1,545	20	1,525
908852 Bilberry Creek - Slope Stabilization	5,950	5,873	77	54	23
909001 Hobbs Municipal Drain	955	150	805	31	774
909002 Tompkins Diversion Municipal Drain	75	19	56	36	20
909131 2018 Stormwater Management Retrofit	12,060	4,062	7,998	588	7,410
909153 Wilson-Cowan Municipal Drain	162	103	59	40	19
909170 Kilroe Municipal Drain	75	8	67	65	2
909171 Thomas Gamble Municipal Drain	255	162	93	85	9
909172 Tasse-Regimbald Municipal Drain	75	12	63	51	12
909173 O'Keefe (Sec 78) Municipal Drain	100	10	90	28	62
909184 Regimbald Municipal Drain	441	343	98	26	72
909195 Simpson Municipal Drain	246	243	3	3	0
909196 Wilson-Johnston Municipal Drain	235	124	111	13	99
909216 Cassidy 2018 Municipal Drain	982	282	700	10	689
909305 Buckles Municipal Drain	403	136	267	30	237
909355 2019 Flood Plain Mapping	175	100	75	75	0
909356 2020 Stormwater Management Retrofit	1,058	0	1,058	0	1,058
909385 2019 Drainage Culverts - CW	21,662	17,236	4,426	277	4,149
909540 DCA- Riverside South Pond 5 Storm Sewers	6,501	5,201	1,300	0	1,300
909626 KNL Municipal Drain	345	62	283	63	219
909708 2020 Drainage Culverts - Site-Specific	1,500	1,051	449	54	394
909709 2020 Drainage Culverts - CW	12,523	7,058	5,464	315	5,150
909715 Beltown Stormwater Improvements	750	0	750	0	750
909730 2020 Stormwater Master Planning	1,637	584	1,053	179	874
909744 Stormwater Mgmt. Rhab&Enviro Compl. 2020	3,242	3,156	86	76	9
909748 Mud Creek Stream Renewal	3,995	0	3,995	0	3,995
909749 2020 Flood Plain Mapping	310	278	32	2	30
909750 Storm and Surface Water Rehabilitation	1,500	817	683	247	436
909815 ORAP-Water Enviro Strgy (WES) PH2 2020	934	136	798	139	660
909816 Linear Storm System Improvements	500	408	92	0	92
909898 Biltmore Extension Municipal Drain	480	90	390	25	366
909899 South Cyrville Municipal Drain	80	0	80	0	80
909942 Britannia Village Ottawa River Flood Pro	500	423	77	77	0
909960 Johnston Municipal Drain	183	24	159	78	81

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909961 Dillon-Wallace Municipal Drain	172	35	137	77	61
910049 FEA Feedmill Crk Stream Rehab	1,376	0	1,376	0	1,376
910081 2021 Drainage Culverts - CW	15,192	12,331	2,861	1,166	1,694
910086 2021 Storm and Surface Water Rehabilitat	3,500	671	2,829	124	2,705
910204 Stormwater Mgmt: Rehab&Enviro Compliance	2,625	1,817	808	785	23
910205 Linear Storm System Improvements 2021	3,000	679	2,321	2,347	(26)
910398 Shirley's Brook Upgrade (KNUEA)	1,421	32	1,389	207	1,182
910448 2022 Drainage Culverts - CW	11,570	2,526	9,044	6,901	2,143
910450 2022 Culverts Scoping Pre/Post Eng.	700	562	138	69	69
910451 2022 Drainage Culverts - Site-Specific	457	0	457	238	219
910453 2022 Drainage Culverts Assessment	349	221	128	104	25
910461 2022 Storm and Surface Water Rehab	1,500	100	1,400	170	1,230
910462 2022 Ditch Alterations	50	0	50	0	50
910515 Municipal Drain Improvements - 2022	374	0	374	0	374
910516 Stormwater Mgmt: Rehab&Enviro Compl 2022	1,960	257	1,703	1,610	93
910800 DCA-Riverside South Pond1 Storm Sewers	1,921	1,275	646	0	646
910817 2023 Flood Plain Mapping	382	45	337	0	337
910822 2023 Drainage Culverts - CW	3,717	32	3,684	448	3,236
910826 2023 Drainage Culverts - Other	527	254	273	0	273
910842 2023 Culverts Scoping Pre/Post Eng.	680	0	680	599	81
910843 2023 Drainage Culverts - Site-Specific	1,500	134	1,366	0	1,366
910844 2023 Drainage Culvert - Site Spec-Other	150	41	109	0	109
910845 2023 Drainage Culverts Assessment	320	33	287	282	5
910867 Stormwater Mgmt: Rehab&Enviro Compl 2023	4,700	0	4,700	200	4,500
910873 Linear Storm System Improvements 2023	3,500	100	3,400	0	3,400
910897 2023 Storm & Surface Water Rehab	1,500	15	1,485	222	1,263
910898 2023 Ditch Alterations	50	0	50	0	50
910905 Municipal Drain Improvements - 2023	610	44	566	0	566
911111 FHIMP-Flood Mapping - Bear Brook Watersh	251	104	147	0	147
911112 FHIMP-Flood Mapping - Castor River Water	815	223	592	0	592
Stormwater Services Total	382,070	192,454	189,616	24,399	165,218
Wastewater Services					
903252 DCA O/S-Sanitary Sewer Oversizing Progra	1,816	605	1,211	0	1,211

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903345 Kanata West Pump Station & Forcemain	53,966	53,611	355	22	333
904752 DCA O/S-Barhaven S. O/S(South of Jock Ri	1,100	496	604	0	604
904755 2018 Infrastructure Master Plan (Sewer)	1,159	1,122	37	12	25
904985 North Kanata Sewer Ph 2	24,102	24,100	2	168	(166)
904986 Tri-Township/March Ridge Replacement	19,222	17,559	1,663	1,654	9
904988 March PS Conversion	13,249	9,035	4,214	3,018	1,196
905421 DCA-O/S Orleans S Business Park SanSewer	843	0	843	0	843
905423 DCA-O/S - Riverside S Community Sanitary	1,439	70	1,369	0	1,369
905424 DCA-O/S -BarrhavenS Oversize NJock River	600	1	599	0	599
905425 DCA-O/S - Kanata Town Centre Trunk Sewer	349	0	349	0	349
905705 ORAP-Combined Sewage Overflow Storage	210,544	208,853	1,691	281	1,409
905745 Compassionate Grant Program	200	51	149	0	149
905964 DCA-O/S Jackson Trails Sewer	252	195	57	0	57
905990 DCA-O/S Kanata Lakes North	59	0	59	0	59
906022 DCA-O/S KW Collector Sewers	4,338	3,991	347	117	230
906099 Trunk Sewer Reliability	3,500	3,175	325	104	221
906647 ROPEC Primary Clarifier Rehab Phase 2	6,680	1,386	5,294	493	4,801
906648 ROPEC - Digester Gas Utilization	57,223	8,516	48,707	4,295	44,413
907060 ROPEC Secondary Clarifier Upgrades	8,256	5,169	3,087	1,914	1,173
907107 Acres Road PS Upgrade Phase 1 Growth	2,335	1,753	582	519	63
907382 ROPEC Aeration Blower Renewal	1,265	1,036	229	287	(58)
907393 ROPEC Condition Assesment Program	500	258	242	0	242
907462 Pump Stations Capacity Increase	8,497	3,938	4,559	4,277	282
907463 Stittsville PS Gravity Connect	1,864	0	1,864	0	1,864
907684 ROPEC-Sewage Treatment Rehab Prog 2015	6,505	5,801	704	14	690
907689 Flow Monitoring Rehab Program	2,674	2,060	613	0	613
907716 ROPEC Rehab of Digester	16,115	7,263	8,852	4,566	4,286
907807 FEA2020 N5 Sanitary Pumping Station Over	939	856	83	0	83
907809 Richmond PS & Forcemain Expansion Phase1	4,503	4,329	174	91	82
907840 FEA2018 Shea Road Pump Station	3,566	3,188	378	0	378
907897 DCA O/S-Cardinal Creek East Sanitary Ovr	75	0	75	0	75
907941 Remote Operations - Station Modification	1,676	1,530	145	17	128
908094 SCADA Rehab & Upgrades - Remote Sewer	97	3	94	0	94
908096 Tartan PS Reliability Improvements	2,250	1,748	502	21	481

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908099 ROPEC - Sewage Treatment Rehab Prog 2016	1,137	1,116	21	5	16
908181 2019 Wastewater Improvements	900	440	460	20	440
908183 Tri-Township Collector	1,500	1,455	45	108	(63)
908247 Richmond Forcemain Expansion	20,930	14,681	6,249	5,196	1,053
908250 Infrastructure Planning Information Mgmt	2,280	955	1,325	0	1,325
908368 WWC PS Gas Monitoring Rehab & Upgrade	5,241	3,735	1,507	1,028	478
908390 Manotick Servicing DCA Credit	6,857	1,499	5,357	0	5,357
908429 ROPEC Digester 5 & 6 Mixing Pump Upgrade	3,500	321	3,179	50	3,129
908451 Lab Equipment Purchase/Replacement 2018	300	75	225	166	59
908453 ROPEC - Sewage Treatment Rehab Prog 2017	2,393	2,360	33	37	(3)
908558 DCA O/S N5 Trunk Sewer Oversizing	60	0	60	0	60
908742 CWWF [Construct] ROPEC Thicken & Dewater	28,310	23,944	4,366	253	4,113
908834 WWS SCADA LAN/WAN Standards Rehab.	1,881	1,314	567	366	200
908845 ROPEC Digester 5 Condition Assessmnt Pln	275	178	97	72	25
908874 ROPEC Fire Damper Rehab	1,375	451	924	8	916
908892 ROPEC Activated Sludge Screws Overhaul	2,670	2,142	528	525	3
908902 Shadow Ridge Station Upgrades	1,490	1,400	90	76	14
909029 Protective Plumbing Program 2018	600	68	532	49	482
909072 Leitrim Sanitary Pump Station Expansion	423	0	423	0	423
909158 ROPEC RSPS Motor & Drive Rehab.	55,385	4,219	51,166	50,156	1,010
909217 Pumping Stn HVAC & Isolation Valve Rehab	2,707	2,244	463	29	434
909225 Primary Clarifiers Odour Control System	4,511	1,630	2,881	2,097	785
909226 Flow Through Station Rehabs	1,575	848	727	21	706
909245 Forcemain Condition Assessment & Rehab	1,250	1,044	206	90	116
909251 ROPEC RAS/WAS Ferrous System Replacement	1,424	1,251	173	162	11
909258 ROPEC RSPS Interior Wall Condition Asses	350	47	303	0	303
909273 Harvard PS Detailed Design & Contract Ad	500	500	0	0	0
909331 Sewage Pumping Station Rehab Prog 2019	5,572	5,140	432	188	244
909341 ROPEC PolymerPipe ConditionAssess-repair	1,088	599	489	457	32
909342 ROPEC Sodium Bisulphate Piping CondAsses	705	672	33	41	(8)
909357 South Nepean Collector Ph3	11,438	8,265	3,173	908	2,265
909491 ROPEC Disinfection Bldg Rehab	1,532	978	554	55	499
909542 DCA-O/S Half Moon Bay N San Sewer	404	0	404	0	404
909568 Hemlock Pumping Station Rehab	550	514	36	16	20

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909585 Leonard Laporte & St.Joseph PS rehab	1,240	960	280	267	13
909602 Cumberland 2-3-4 PS Rehab	250	234	16	19	(3)
909623 Cambridge St - Sewer Replacement	2,629	2,319	309	41	269
909716 Mooney's Bay Trunk Sewer	8,500	791	7,709	28	7,680
909717 2020 ORAP Wet Weather IMP	4,000	1,627	2,373	160	2,213
909724 Pump Stations Capacity Renewal	4,575	991	3,584	1,712	1,872
909745 Acres Road PS Phase 1 Renewal	4,848	1,604	3,244	2,541	704
909806 Sewer Lateral Repairs 2020	3,725	3,628	97	27	70
909807 Sewage Pumping Station Rehab Prog 2020	5,581	4,600	981	889	92
909808 ROPEC - Sewage Treatment Rehab Prog 2020	12,169	3,585	8,584	1,065	7,519
909902 Windsor Park PS Rehab	250	235	15	16	(1)
909906 Primary Clarifiers Inlet Gate Replacemen	4,453	3,391	1,062	406	656
909938 RSPS to S&D Conduit Flume Channel	425	13	412	172	239
909969 ROPEC Master Plan	1,010	807	203	194	9
909972 RCAF and RCMP PS Rehabilitation	4,912	538	4,374	172	4,202
909992 Richmond Pump Station	16,068	5,139	10,929	10,420	509
909997 Acres & Hazeldean PSs Odour Control	3,911	3,896	15	9	7
910009 Harvard PS Construction	2,700	2,585	115	112	3
910035 WWS SCADA LAN Phase 1	5,863	4,719	1,144	1,126	18
910040 Sunland and Orchard View Properties	1,747	1,518	230	48	181
910048 2021 Infrastructure Master Plan (Sewer)	769	293	476	28	448
910063 SCADA Rehab & Upgrades-Remote Sewer 2021	759	214	545	130	415
910064 Collection System Condition Assess. 2021	1,160	1,019	141	115	26
910076 Carp Wastewater PS Upgrade/Overflow	5,142	120	5,022	448	4,574
910077 2021 Flood Plain Mapping	240	220	20	0	20
910087 2021 ORAP Wet Weather IMP	2,150	288	1,862	119	1,742
910120 Linear Sewage System Improve. Prog. 2021	1,001	520	481	506	(25)
910121 Sewer Lateral Repairs 2021	4,500	4,129	371	298	73
910123 DCA-O/S KW Trunk Sewers - 130 Huntmar	75	0	75	0	75
910124 Sewage Pumping Station Rehab Prog 2021	15,321	6,206	9,115	7,345	1,770
910130 ROPEC - Sewage Treatment Rehab Prog 2021	9,642	6,900	2,742	2,660	82
910131 ROPEC - Concrete Rehab & Repairs 2021	507	134	373	15	358
910132 Wastewater Facilites Upgrade 2021	0	1	(1)	0	(1)
910224 S&D Classifiers Replacement	700	486	214	47	168

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910245 East Boiler #1 and #2 Controls Upgrade	400	306	94	116	(21)
910258 Orient Park PS Power Supply Upgrade	703	109	594	98	496
910259 2020 ARC Flash WWC Remote Facilities	200	118	82	19	62
910265 Hazeldean Generator Replacement Study	329	274	55	16	39
910279 WWC Diesel Gen & Fuel System Rehab	1,555	229	1,326	967	359
910311 PC Sludge & Sump Pumps Rehab	250	202	48	0	48
910326 Reliability Eng Wastewater Treatment	532	236	296	61	235
910463 2022 ORAP Wet Weather IMP	1,000	165	835	0	835
910530 New Vehicles Wastewater 2022	250	3	247	0	247
910531 SCADA Rehab & Upgrades-Remote Sewer 2022	3,840	151	3,689	1,024	2,665
910532 Collection System Condition Assess. 2022	1,411	557	854	632	222
910533 Sewer Lateral Repairs 2022	4,500	0	4,500	626	3,874
910534 Sewage Pumping Station Rehab Prog 2022	11,918	3,712	8,206	5,365	2,841
910535 ROPEC - Sewage Treatment Rehab Prog 2022	822	213	609	429	180
910536 Wastewater Facilites Upgrade 2022	500	80	420	16	403
910538 ROPEC - SCADA Rehab. & Upgrades 2022	3,620	1,882	1,738	941	798
910539 Lab Equipment Purchase/Replacement 2022	350	83	267	27	240
910686 MECP Sewage Overflow & Bypasses Program	1,439	86	1,353	84	1,270
910692 Hazeldean PS Generator D&C	1,700	179	1,521	79	1,442
910693 SSRJB Decommissioning Functional Design	150	78	72	67	5
910729 Kanata West PS Construction	3,315	1,449	1,866	1,739	128
910736 LRT IWSD Rate funded Variations	6,656	4,596	2,061	429	1,632
910745 Reliability Engineering WWC Remotes	338	175	163	95	69
910759 ROPEC Polymer Piping Rehab Construction	4,350	509	3,841	3,257	584
910767 WWC 3-yr PM Hazeldean & Woodroffe PS	931	2	929	721	208
910774 St Joseph PS Reliability Upgrade	616	93	523	104	419
910892 2023 ORAP Wet Weather IMP	1,000	0	1,000	45	955
910904 2023 Pump Stations Capacity Renewal	2,609	0	2,609	0	2,609
910906 2023 Pump Stations Capacity Increase	5,120	0	5,120	0	5,120
910909 New Vehicles Wastewater 2023	250	0	250	27	223
910910 Collection System Condition Assess. 2023	1,000	173	827	267	560
910914 Sewage Pumping Station Rehab Prog 2023	10,981	409	10,572	173	10,399
910915 ROPEC - Sewage Treatment Rehab Prog 2023	28,647	11	28,636	0	28,636
910917 Wastewater Drainage Roofing 2023	509	0	509	0	509

City Of Ottawa
 Capital Works-In-Progress as at September 30, 2023
 Environment and Climate Change - Rate
 In Thousands \$(000's)

Project Description	Authority	Expenditures	Unspent Cash Balance	Total Contractual Obligations	Unspent Balance including Contractual Obligations
910918 ROPEC - SCADA Rehab. & Upgrades 2023	1,000	0	1,000	0	1,000
910919 Lab Equipment Replacement 2023	170	0	170	0	170
910920 Linear Sewage System Improvements 2023	1,000	109	891	35	856
910921 Flow Monitoring System Rehab 2023	200	0	200	0	200
910923 ROPEC Capitalized Maintenance 2023	1,000	19	981	0	981
910924 Waste Water Collection Maintenance 2023	6,048	64	5,984	0	5,984
911029 ROPEC HVAC Rehab	1,600	0	1,600	0	1,600
911131 ROPEC Aeration Blower Expansion	4,707	0	4,707	0	4,707
Wastewater Services Total	881,209	535,765	345,444	132,643	212,801
Grand Total	1,850,530	944,609	905,920	226,823	679,097