



Draft **BUDGET** 2022

**Pathway to recovery:
Investing in our people
and communities**

**Standing Committee on
Environmental Protection,
Water and Waste
Management -Rate**

Tabled November 3, 2021



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Public Works & Environmental Services Department

2022 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
Public Works & Environmental Services Department
Drinking Water Services - Operating Resource Requirement
In Thousands (\$000)

	2020	2021		2022	\$ Change over 2021 Budget
	Actual	Forecast	Budget	Estimate	
Expenditures by Program					
Water Operations	55,792	57,247	59,162	61,022	1,860
Technical Innovation & Engineering Support Services	7,525	7,641	7,529	7,819	290
Business & Technical Support Services	1,535	1,363	1,340	1,365	25
Non Departmental	122,973	128,602	128,602	132,079	3,477
Gross Expenditure	187,825	194,853	196,633	202,285	5,652
Recoveries & Allocations	-3,991	-3,576	-2,942	-2,942	0
Revenue	-188,193	-194,775	-193,691	-199,343	-5,652
Net Requirement	-4,359	-3,498	0	0	0
Expenditures by Type					
Salaries, Wages & Benefits	32,001	31,954	33,512	34,712	1,200
Overtime	1,131	1,576	1,976	1,996	20
Material & Services	19,304	19,838	20,618	21,073	455
Transfers/Grants/Financial Charges	99,853	103,200	103,210	106,449	3,239
Fleet Costs	2,997	3,232	3,337	3,337	0
Program Facility Costs	0	0	0	0	0
Other Internal Costs	32,539	35,053	33,980	34,718	738
Gross Expenditures	187,825	194,853	196,633	202,285	5,652
Recoveries & Allocations	-3,991	-3,576	-2,942	-2,942	0
Net Expenditure	183,834	191,277	193,691	199,343	5,652
Revenues By Type					
Federal	0	0	0	0	0
Provincial	0	0	0	0	0
Own Funds	-1,724	-1,718	-1,718	-650	1,068
Fees and Services	-186,469	-193,057	-191,973	-198,693	-6,720
Fines	0	0	0	0	0
Other	0	0	0	0	0
Total Revenue	-188,193	-194,775	-193,691	-199,343	-5,652
Net Requirement	-4,359	-3,498	0	0	0
Full Time Equivalents			307.27	314.77	7.50

City of Ottawa
Public Works & Environmental Services Department
Drinking Water Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
Water Services Connection							-25
All sizes of Service Pipe							
Cost plus 15%, hourly	147.00	150.00	153.00	2.0%	4.1%	01-Jan-22	
Additional visit (service connection 20 mm-50 mm) - Cost plus 15%, hourly (new fee)	147.00	150.00	153.00	2.0%	4.1%	01-Jan-22	
Additional visit (service connection > 50 mm) - Cost plus 15%, hourly (new fee)	211.00	215.00	219.00	1.9%	3.8%	01-Jan-22	
Private service connection - Cost plus 15%, hourly (new fee)	147.00	150.00	153.00	2.0%	4.1%	01-Jan-22	
Services							
All Thawing of Services							
Cost plus 15%, hourly	179.00	185.00	191.00	3.2%	6.7%	01-Jan-22	
Fire Flow Test Support	266.00	271.00	276.00	1.8%	3.8%	01-Jan-22	
Service Charges							
Turn water services off and on for non payment	196.00	202.00	208.00	3.0%	6.1%	01-Jan-22	
Turn off or on of water services (per operation)	98.00	101.00	104.00	3.0%	6.1%	01-Jan-22	
Permit for Flusher Hydrant Usage	282.00	288.00	297.00	3.1%	5.3%	01-Jan-22	
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			01-Jan-22	
Inspection Fees (Inspection of activities connected to the water distribution system)							
All new watermains and services that don't require full disinfection	208.00	212.00	216.00	1.9%	3.8%	01-Jan-22	
All new watermains and services up to 50m long that require full disinfection	618.00	630.00	643.00	2.1%	4.0%	01-Jan-22	
All new watermains and services over 50m long that require full disinfection	Cost plus 15%	Cost plus 15%	Cost plus 15%			01-Jan-22	

City of Ottawa
Public Works & Environmental Services Department
Drinking Water Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
Meter Service Charges							
Inspection/Re-Inspection for New Water Meters (<= 20 mm meter)	102.00	106.00	109.00	2.8%	6.9%	01-Jan-22	
Meter Maintenance Service Call	175.00	181.00	186.00	2.8%	6.3%	01-Jan-22	
Water Meter Accuracy Test (<= 25 mm meter)	144.00	149.00	153.00	2.7%	6.3%	01-Jan-22	
Water Meter Accuracy Test (> 25 mm meter) (New in 2019)	193.00	199.00	205.00	3.0%	6.2%	01-Jan-22	
Additional visits (<= 25 mm meter)	68.00	70.00	72.00	2.9%	5.9%	01-Jan-22	
Additional visits (large meters greater than 25 mm)	113.00	117.00	121.00	3.4%	7.1%	01-Jan-22	
Additional visits (fire line meters)	213.00	220.00	227.00	3.2%	6.6%	01-Jan-22	
Manual Meter Reading Fee	40.00	41.00	42.00	2.4%	5.0%	01-Jan-22	
New Water Meters							
Size of Meter							
15 mm Pos. Disp.	381.00	400.00	412.00	3.0%	8.1%	01-Jan-22	
15 mm Pos. Disp.(Carlsbad only)	582.00	602.00	620.00	3.0%	6.5%	01-Jan-22	
20 mm Pos. Disp.	428.00	443.00	456.00	2.9%	6.5%	01-Jan-22	
25 mm Pos. Disp.	503.00	521.00	537.00	3.1%	6.8%	01-Jan-22	
40 mm Pos. Disp.	937.00	970.00	999.00	3.0%	6.6%	01-Jan-22	
50 mm Pos. Disp.	1,040.00	1,077.00	1,109.00	3.0%	6.6%	01-Jan-22	
75 mm Magnetic	2,560.00	2,335.00	2,405.00	3.0%	-6.1%	01-Jan-22	
75 mm Ultrasonic	3,739.00	3,292.00	3,391.00	3.0%	-9.3%	01-Jan-22	
100 mm Magnetic	3,126.00	2,836.00	2,921.00	3.0%	-6.6%	01-Jan-22	
100 mm Ultrasonic	4,918.00	3,753.00	3,866.00	3.0%	-21.4%	01-Jan-22	
150 mm Magnetic	5,150.00	5,230.00	5,387.00	3.0%	4.6%	01-Jan-22	
150 mm Ultrasonic	7,931.00	5,641.00	5,810.00	3.0%	-26.7%	01-Jan-22	
Fire Line Meter Assembly - Cost plus 15%, hourly	215.00	223.00	230.00	3.1%	7.0%	01-Jan-22	

City of Ottawa
Public Works & Environmental Services Department
Drinking Water Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
Replacement Water Meters							
Size of Meter							
15 mm Pos. Disp.	279.00	289.00	298.00	3.1%	6.8%	01-Jan-22	
15 mm Pos. Disp.(Carlsbad only)	284.00	294.00	303.00	3.1%	6.7%	01-Jan-22	
20 mm Pos. Disp.	322.00	333.00	343.00	3.0%	6.5%	01-Jan-22	
25 mm Pos. Disp.	398.00	412.00	424.00	2.9%	6.5%	01-Jan-22	
40 mm Pos. Disp.	796.00	824.00	849.00	3.0%	6.7%	01-Jan-22	
50 mm Pos. Disp.	903.00	935.00	963.00	3.0%	6.6%	01-Jan-22	
75 mm Magnetic	2,421.00	2,096.00	2,159.00	3.0%	-10.8%	01-Jan-22	
75 mm Ultrasonic	3,533.00	3,051.00	3,143.00	3.0%	-11.0%	01-Jan-22	
100 mm Magnetic	2,992.00	2,595.00	2,673.00	3.0%	-10.7%	01-Jan-22	
100 mm Ultrasonic	4,717.00	3,512.00	3,617.00	3.0%	-23.3%	01-Jan-22	
150 mm Magnetic	4,929.00	4,998.00	5,148.00	3.0%	4.4%	01-Jan-22	
150 mm Ultrasonic	7,648.00	5,400.00	5,562.00	3.0%	-27.3%	01-Jan-22	
Temporary removal and installation of meter	143.00	150.00	155.00	3.3%	8.4%	01-Jan-22	
City water meter reading device (new or damaged) replacement	219.00	227.00	234.00	3.1%	6.8%	01-Jan-22	
City water meter reading device and/or water meter reader wire re-location	173.00	179.00	184.00	2.8%	6.4%	01-Jan-22	
Total for all fees above							-25

City of Ottawa
Public Works & Environmental Services Department
Drinking Water Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
Non Departmental							-5,198
Distribution of Drinking Water							
Variable Rate - per cubic meter water consumed							
0 - 6 m3	0.83	0.85	0.88	2.9%	6.1%	01-Apr-22	
>6 - 25 m3	1.65	1.70	1.75	3.0%	6.1%	01-Apr-22	
>25 - 180 m3	1.82	1.87	1.93	2.9%	6.1%	01-Apr-22	
>180 m3	2.03	2.09	2.15	3.0%	6.0%	01-Apr-22	
Daily Fixed Fee Rates - per meter size							
15 mm	0.34	0.35	0.36	2.8%	5.9%	01-Apr-22	
20 mm	0.49	0.50	0.51	2.9%	5.0%	01-Apr-22	
25 mm	0.82	0.84	0.86	2.5%	5.0%	01-Apr-22	
40 mm	1.64	1.67	1.72	2.5%	4.4%	01-Apr-22	
50 mm	2.61	2.66	2.74	2.9%	4.8%	01-Apr-22	
75 mm	4.91	5.01	5.14	2.7%	4.7%	01-Apr-22	
100 mm	8.19	8.35	8.57	2.6%	4.7%	01-Apr-22	
150 mm	16.36	16.69	17.15	2.8%	4.8%	01-Apr-22	
200 mm	26.19	26.71	27.44	2.7%	4.8%	01-Apr-22	
250 mm	37.65	38.40	39.44	2.7%	4.8%	01-Apr-22	
300 mm	70.39	71.80	73.74	2.7%	N/A	01-Apr-22	
Compound Meter	1.54	1.58	1.62	3.0%	5.1%	01-Apr-22	

City of Ottawa
 Public Works & Environmental Services Department
 Drinking Water Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
Fire Supply Charge							-500
Annual cost - per meter size							
15 mm meter	48.15	49.11	50.59	3.0%	5.1%	01-Apr-22	
20 mm meter	85.61	87.32	89.94	3.0%	5.1%	01-Apr-22	
25 mm meter	133.77	136.45	140.54	3.0%	5.1%	01-Apr-22	
40 mm meter	342.44	349.29	359.76	3.0%	5.1%	01-Apr-22	
50 mm meter	535.07	545.77	562.14	3.0%	5.1%	01-Apr-22	
75 mm meter	1,203.89	1,227.97	1,264.81	3.0%	5.1%	01-Apr-22	
100 mm meter	2,140.25	2,183.05	2,248.55	3.0%	5.1%	01-Apr-22	
150 mm meter	4,815.57	4,911.88	5,059.23	3.0%	5.1%	01-Apr-22	
200 mm meter	8,561.01	8,732.23	8,994.19	3.0%	5.1%	01-Apr-22	
250 mm meter	13,376.57	13,644.11	14,053.43	3.0%	5.1%	01-Apr-22	
Total Departmental							-5,748

Public Works & Environmental Services Department

2022 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 5,953 km of sanitary, combined, and storm pipes, 94,636 maintenance holes, 103,872 catch basins, and 1,777 stormwater outlets
- Operation and maintenance of 91 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
Public Works and Environmental Services
Wastewater Services - Operating Resource Requirement
In Thousands (\$000)

	2020	2021		2022	\$ Change over 2021 Budget
	Actual	Forecast	Budget	Estimate	
Expenditures by Program					
Wastewater Operations	47,859	50,110	46,217	50,802	4,585
Biosolids	4,570	4,554	4,554	4,554	0
Technical Innovation & Engineering Support	6,092	6,757	6,154	6,389	235
Business & Technical Support Services	208	58	0	0	0
Non Departmental	111,519	117,763	117,763	120,701	2,938
Gross Expenditure	170,248	179,242	174,688	182,446	7,758
Recoveries & Allocations	-16,692	-14,419	-12,706	-13,206	-500
Revenue	-153,361	-161,995	-161,982	-169,240	-7,258
Net Requirement	195	2,828	0	0	0
Expenditures by Type					
Salaries, Wages & Benefits	24,309	26,209	24,188	25,932	1,744
Overtime	699	929	929	945	16
Material & Services	29,390	29,954	27,929	30,989	3,060
Transfers/Grants/Financial Charges	92,768	97,500	97,500	100,354	2,854
Fleet Costs	1,631	1,748	1,511	1,511	0
Program Facility Costs	0	0	0	0	0
Other Internal Costs	21,451	22,902	22,631	22,715	84
Gross Expenditures	170,248	179,242	174,688	182,446	7,758
Recoveries & Allocations	-16,692	-14,419	-12,706	-13,206	-500
Net Expenditure	153,556	164,823	161,982	169,240	7,258
Revenues By Type					
Federal	0	0	0	0	0
Provincial	0	0	0	0	0
Own Funds	-4,476	-4,477	-4,477	-4,725	-248
Fees and Services	-148,885	-157,518	-157,505	-164,515	-7,010
Fines	0	0	0	0	0
Other	0	0	0	0	0
Total Revenue	-153,361	-161,995	-161,982	-169,240	-7,258
Net Requirement	195	2,828	0	0	0
Full Time Equivalent			229.15	234.65	5.50

City of Ottawa
Public Works and Environmental Services
Wastewater Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
Sanitary Sewer Systems							
Sewer Use Program - Disposal Fees							
Septic Tank Strength Liquid Material (per cubic meter)	16.77	17.10	17.10	0.0%	2.0%	01-Jan-22	-15
Holding Tank Strength Liquid Material (per cubic metre)	3.60	3.67	3.67	0.0%	2.0%	01-Jan-22	
Liquid Material Generated Outside the City of Ottawa (per cubic metre)	29.22	29.81	29.81	0.0%	2.0%	01-Jan-22	
Sewer Use Program - Permit Fees							
Annual Permit Fee	285.00	291.00	355.00	22.0%	24.6%	01-Jan-22	
Annual Permit Revision Fee	160.00	163.00	143.00	-12.3%	-10.6%	01-Jan-22	
Sewer Use Program - Discharge Fees							
Conveyance Fee	1.58	1.64	1.71	4.0%	8.2%	01-Jan-22	
Treatment Fee	0.98	1.02	1.06	4.0%	8.2%	01-Jan-22	
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-22	
Suspended Solids (per kg)	0.88	0.88	0.88	0.0%	0.0%	01-Jan-22	
Phenolic Compounds (per kg)	1.66	1.66	1.66	0.0%	0.0%	01-Jan-22	
Kjeldahl Nitrogen (per kg)	6.60	6.60	6.60	0.0%	0.0%	01-Jan-22	
Phosphorus (per kg)	2.66	2.66	2.66	0.0%	0.0%	01-Jan-22	
Sewer Use Program - Administrative Fees							
Special Discharge Agreement Fee	1,107.00	1,129.00	1,482.00	31.3%	33.9%	01-Jan-22	
Sanitary Sewer Agreement Fee	788.00	804.00	744.00	-7.5%	-5.6%	01-Jan-22	
Compliance Program Fee	1,107.00	1,129.00	1,399.00	23.9%	26.4%	01-Jan-22	
Combined Agreement Fee	1,107.00	1,129.00	1,416.00	25.4%	27.9%	01-Jan-22	
Sanitary Discharge Agreement Revision Fee	238.00	243.00	292.00	20.2%	22.7%	01-Jan-22	
Combined Agreement Revision Fee	238.00	243.00	292.00	20.2%	22.7%	01-Jan-22	
Sanitary Sewer Agreement Revision Fee (per revision)	118.00	120.00	367.00	205.8%	211.0%	01-Jan-22	
Compliance Program Revision Fee (per revision)	238.00	243.00	292.00	20.2%	22.7%	01-Jan-22	

City of Ottawa
 Public Works and Environmental Services
 Wastewater Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
Non Departmental							
Sewer Surcharge for Sanitary Sewer Systems							-6,173
Variable Rate - per cubic meter water consumed							
0 - 6 m3	0.745	0.78	0.81	4.0%	8.2%	01-Apr-22	
>6 - 25 m3	1.491	1.55	1.61	4.0%	8.1%	01-Apr-22	
>25 - 180 m3	1.651	1.72	1.77	4.0%	7.4%	01-Apr-22	
>180 m3	1.848	1.92	2.00	4.0%	8.1%	01-Apr-22	
Daily Fixed Fee Rates - per meter size							
15 mm	0.288	0.30	0.31	3.9%	7.5%	01-Apr-22	
20 mm	0.441	0.45	0.47	3.9%	6.3%	01-Apr-22	
25 mm	0.729	0.75	0.78	3.9%	6.7%	01-Apr-22	
40 mm	1.469	1.51	1.56	3.7%	6.5%	01-Apr-22	
50 mm	2.350	2.41	2.50	3.8%	6.5%	01-Apr-22	
75 mm	4.403	4.51	4.69	3.9%	6.6%	01-Apr-22	
100 mm	7.337	7.53	7.82	3.8%	6.6%	01-Apr-22	
150 mm	14.680	15.06	15.64	3.8%	6.5%	01-Apr-22	
200 mm	23.490	24.10	25.02	3.8%	6.5%	01-Apr-22	
250 mm	33.770	34.65	35.97	3.8%	6.5%	01-Apr-22	
Compound Meter	1.457	1.49	1.55	4.0%	6.6%	01-Apr-22	
Total Departmental							-6,188

Public Works & Environmental Services Department

2022 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 of Laboratory)
- 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
Public Works and Environmental Services
Stormwater Services - Operating Resource Requirement
In Thousands (\$000)

	2020	2021		2022	\$ Change over 2021 Budget
	Actual	Forecast	Budget	Estimate	
Expenditures by Program					
Stormwater Operations	13,071	11,020	11,739	11,944	205
Technical Innovation & Engineering Support	1,222	409	409	409	0
Business & Technical Support Services	379	354	354	354	0
Non Departmental	46,173	53,313	53,313	62,749	9,436
Gross Expenditure	60,845	65,096	65,815	75,456	9,641
Recoveries & Allocations	-1,391	-1,767	-1,767	-1,767	0
Revenue	-59,018	-64,778	-64,048	-73,689	-9,641
Net Requirement	436	-1,449	0	0	0
Expenditures by Type					
Salaries, Wages & Benefits	4,795	5,132	4,886	4,990	104
Overtime	5	9	60	61	1
Material & Services	1,985	1,257	2,354	2,454	100
Transfers/Grants/Financial Charges	33,220	39,664	39,664	49,042	9,378
Fleet Costs	228	230	230	230	0
Program Facility Costs	0	0	0	0	0
Other Internal Costs	20,612	18,804	18,621	18,679	58
Gross Expenditures	60,845	65,096	65,815	75,456	9,641
Recoveries & Allocations	-1,391	-1,767	-1,767	-1,767	0
Net Expenditure	59,454	63,329	64,048	73,689	9,641
Revenues By Type					
Federal	0	0	0	0	0
Provincial	-219	-145	-145	-145	0
Own Funds	0	0	0	0	0
Fees and Services	-58,799	-64,633	-63,903	-73,544	-9,641
Fines	0	0	0	0	0
Other	0	0	0	0	0
Total Revenue	-59,018	-64,778	-64,048	-73,689	-9,641
Net Requirement	436	-1,449	0	0	0
Full Time Equivalents			46.02	46.02	0.00

City of Ottawa
Public Works and Environmental Services
Stormwater Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
Laboratory Services (Tests)							
Alkalinity, PH, Conductivity	11.03	11.25	11.48	2.0%	4.1%	01-Jan-22	
Alkalinity Brinkman (wastewater)	16.60	16.93	17.27	2.0%	4.0%	01-Jan-22	
Biochemical Oxygen Demand	18.15	18.51	18.88	2.0%	4.0%	01-Jan-22	
Carbonaceous Biochemical Demand	18.15	18.51	18.88	2.0%	4.0%	01-Jan-22	
Chloride	12.70	13.16	13.42	2.0%	5.7%	01-Jan-22	
Chemical Oxygen Demand	11.79	12.03	12.27	2.0%	4.1%	01-Jan-22	
Conductivity	11.03	11.25	11.48	2.0%	4.1%	01-Jan-22	
Dissolved Organic Carbon	15.58	15.89	16.21	2.0%	4.0%	01-Jan-22	
E. coli (wastewater)	12.41	12.66	12.91	2.0%	4.0%	01-Jan-22	
Fluoride (SIE)	17.80	18.16	18.52	2.0%	4.0%	01-Jan-22	
Heterotrophic Plate	13.19	13.45	13.72	2.0%	4.0%	01-Jan-22	
Halo Acetic Acid	141.72	144.55	147.44	2.0%	4.0%	01-Jan-22	
ICP-OES Industrial Waste - 28 elements	28.04	28.60	29.17	2.0%	4.0%	01-Jan-22	
ICP-OES Metals Scan - 5 elements	14.52	14.81	15.11	2.0%	4.1%	01-Jan-22	
ICP-OES Metal Scan - 28 elements	24.31	24.80	25.30	2.0%	4.1%	01-Jan-22	
ICP/MS Metal Scan SW/DW - 27 elements	39.19	39.97	40.77	2.0%	4.0%	01-Jan-22	
ICP/MS Lead DW	14.52	14.81	15.11	2.0%	4.1%	01-Jan-22	
Ammonia - Surface/Waste Water	11.03	11.29	11.52	2.0%	4.4%	01-Jan-22	
Ion Chromatography	17.80	18.16	18.52	2.0%	4.0%	01-Jan-22	
Mercury	36.07	36.79	37.53	2.0%	4.0%	01-Jan-22	
Nitrates	12.70	13.16	13.42	2.0%	5.7%	01-Jan-22	
PH	11.03	11.25	11.48	2.0%	4.1%	01-Jan-22	
Reactive Phosphorus	11.03	11.29	11.52	2.0%	4.4%	01-Jan-22	
Soluble Biochemical Oxygen Demand	19.17	19.55	19.94	2.0%	4.0%	01-Jan-22	
Soluble Carbonaceous Biochemical Oxygen Demand	19.17	19.55	19.94	2.0%	4.0%	01-Jan-22	
Soluble Chemical Oxygen Demand	12.81	13.07	13.33	2.0%	4.1%	01-Jan-22	
Specific gravity	22.95	23.41	23.88	2.0%	4.1%	01-Jan-22	
Sulphate	12.70	13.16	13.42	2.0%	5.7%	01-Jan-22	
Soluble Phosphorus	16.03	16.35	16.68	2.0%	4.1%	01-Jan-22	
Soluble Kjeldahl Nitrogen	16.03	16.35	16.68	2.0%	4.1%	01-Jan-22	

City of Ottawa
Public Works and Environmental Services
Stormwater Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
Laboratory Services (Tests) cont'd							
Total Coliforms - E-Coli (DC)	11.43	11.66	11.89	2.0%	4.0%	01-Jan-22	
Total Coliforms - E-Coli (PA)	21.52	21.95	22.39	2.0%	4.0%	01-Jan-22	
Total Coliforms - E-Coli (MPN)	22.45	22.90	23.36	2.0%	4.1%	01-Jan-22	
Total Kjeldahl Nitrogen	15.01	15.35	15.66	2.0%	4.3%	01-Jan-22	
Total Phosphorus	15.01	15.35	15.66	2.0%	4.3%	01-Jan-22	
Total Solid - Waste Water	11.61	11.84	12.08	2.0%	4.0%	01-Jan-22	
Total Solid - Solid	11.61	11.84	12.08	2.0%	4.0%	01-Jan-22	
Total Suspended Solid	10.84	11.06	11.28	2.0%	4.1%	01-Jan-22	
Trihalomethane/VOC Full Scan	65.59	66.90	68.24	2.0%	4.0%	01-Jan-22	
Volatile Acids	40.38	41.19	42.01	2.0%	4.0%	01-Jan-22	
Volatile Solids - Waste Water	12.35	12.60	12.85	2.0%	4.0%	01-Jan-22	
Volatile Solids - Solids	12.58	12.83	13.09	2.0%	4.1%	01-Jan-22	
Volatile Suspended Solid (Water)	12.52	12.77	13.03	2.0%	4.1%	01-Jan-22	
Drinking Water Anion (Chloride, fluoride, nitrite and nitrate, sulphate)	17.80	18.16	18.52	2.0%	4.0%	01-Jan-22	
Total Nutrients (Ammonia + Ammonia, Reactive Phosphorus)	12.05	12.29	12.54	2.0%	4.1%	01-Jan-22	
TKN/TP (Total Kjeldahl Nitrogen, Total Phosphorus)	16.03	16.35	16.68	2.0%	4.1%	01-Jan-22	
Increase to rates for various lab tests listed above							-15

City of Ottawa
Public Works and Environmental Services
Stormwater Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
Non Departmental							
Annual Stormwater Service Fees							
Residential Connected							
Urban Single/Semi	140.65	154.80	167.30	8.1%	18.9%	01-Apr-22	-7,868
Rural Single/Semi	140.65	154.80	167.30	8.1%	18.9%	01-Apr-22	
Urban Townhouse/Apt	70.33	77.40	83.65	8.1%	18.9%	01-Apr-22	
Rural Townhouse/Apt	70.33	77.40	83.65	8.1%	18.9%	01-Apr-22	
Residential Non-Connected							
Urban Single/Semi	98.46	108.36	117.11	8.1%	18.9%	01-Apr-22	
Rural Single/Semi	70.33	77.40	83.65	8.1%	18.9%	01-Apr-22	
Urban Townhouse/Apt	49.23	54.18	58.55	8.1%	18.9%	01-Apr-22	
Rural Townhouse/Apt	35.16	38.70	41.82	8.1%	18.9%	01-Apr-22	
Industrial, Commercial and Institutional (ICI)							
ICI Connected Urban and Rural							
0 to 300K Assessment	65.86	72.53	78.39	8.1%	19.0%	01-Apr-22	
>300K to 1M Assessment	311.68	343.25	370.98	8.1%	19.0%	01-Apr-22	
>1M to 5M Assessment	1,162.57	1,280.30	1,383.74	8.1%	19.0%	01-Apr-22	
>5M to 20M Assessment	5,096.62	5,612.78	6,066.24	8.1%	19.0%	01-Apr-22	
>20M to 50M Assessment	15,426.69	16,989.02	18,361.58	8.1%	19.0%	01-Apr-22	
>50M to 100M Assessment	37,232.17	41,002.82	44,315.49	8.1%	19.0%	01-Apr-22	
>100M to 150M Assessment	62,453.81	68,778.77	74,335.48	8.1%	19.0%	01-Apr-22	
>150M Assessment	132,255.61	145,649.67	157,416.88	8.1%	19.0%	01-Apr-22	

City of Ottawa
Public Works and Environmental Services
Stormwater Services - User Fees

	2020 Rate \$	2021 Rate \$	2022 Rate \$	% Change Over 2021	% Change Over 2020	Effective Date	2022 Revenue (\$000)
ICI Non-Connected - Urban							
0 to 300K Assessment	65.86	72.53	78.39	8.1%	19.0%	01-Apr-22	
>300K to 1M Assessment	311.68	343.25	370.98	8.1%	19.0%	01-Apr-22	
>1M to 5M Assessment	1,162.57	1,280.30	1,383.74	8.1%	19.0%	01-Apr-22	
>5M to 20M Assessment	5,096.62	5,612.78	6,066.24	8.1%	19.0%	01-Apr-22	
>20M to 50M Assessment	15,426.69	16,989.02	18,361.58	8.1%	19.0%	01-Apr-22	
>50M to 100M Assessment	37,232.17	41,002.82	44,315.49	8.1%	19.0%	01-Apr-22	
>100M to 150M Assessment	62,453.81	68,778.77	74,335.48	8.1%	19.0%	01-Apr-22	
>150M Assessment	132,255.61	145,649.67	157,416.88	8.1%	19.0%	01-Apr-22	
ICI Non-Connected - Rural							
0 to 300K Assessment	46.10	50.77	54.87	8.1%	19.0%	01-Apr-22	
>300K to 1M Assessment	218.18	240.27	259.68	8.1%	19.0%	01-Apr-22	
>1M to 5M Assessment	813.80	896.21	968.62	8.1%	19.0%	01-Apr-22	
>5M to 20M Assessment	3,567.64	3,928.94	4,246.37	8.1%	19.0%	01-Apr-22	
>20M to 50M Assessment	10,798.69	11,892.31	12,853.11	8.1%	19.0%	01-Apr-22	
>50M to 100M Assessment	26,062.52	28,701.98	31,020.84	8.1%	19.0%	01-Apr-22	
>100M to 150M Assessment	43,717.67	48,145.14	52,034.84	8.1%	19.0%	01-Apr-22	
>150M Assessment	92,578.92	101,954.77	110,191.82	8.1%	19.0%	01-Apr-22	
Total Departmental							-7,883

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Capital Funding Summary
In Thousands \$(000's)

Project Description	Revenues	Develop. Charges	Develop. Charges Debt	Rate Supported	Rate Supported Debt	Grand Total
Drinking Water Services						
Renewal of City Assets						
906665 Lemieux WPP Intake Ice Mgmt	0	0	0	14,821	0	14,821
908076 Large Water Meters Changeout Program	0	0	0	750	0	750
908908 Small Water Meters Changeout Program	0	0	0	2,625	0	2,625
908909 Advanced Metering Infra. (AMI) Changeout	0	0	0	1,075	1,000	2,075
909671 2020 Infrastructure Master Plan (Water)	0	17	0	138	0	155
910119 Stanley Ave. (Sussex - Union St)	0	0	0	1,650	0	1,650
910396 2022 Groundwater Studies	0	16	0	148	0	164
910411 2022 Buildings-Water Services	0	0	0	150	0	150
910456 2022 Water System Improvements	0	0	0	4,000	3,000	7,000
910457 2022 WM Transmission/Distribution Rehab	0	0	0	3,000	2,000	5,000
910458 2022 Water Structures - Inspections	0	0	0	40	0	40
910459 Bank St (Leitrim - Dunskipper)	0	0	0	3,000	2,000	5,000
910460 Fuel Oil Tank Incentive Program	0	0	0	207	0	207
910496 Protective Lead Service Replace Prg 2022	250	0	0	250	0	500
910497 Cathodic Protection 2022	0	0	0	1,200	0	1,200
910498 Critical Links Risk Mitigation Meas 2022	0	0	0	500	0	500
910499 Water Pumping Station Facility Rehab 2022	0	0	0	1,360	0	1,360
910525 Communal Well System Rehab 2022	0	0	0	1,899	1,000	2,899
910526 Water Treatment Rehab 2022	0	0	0	7,594	4,000	11,594
910527 Water Sys SCADA & Instrument Rehab 2022	0	0	0	2,000	1,000	3,000
910529 New Vehicles Drinking Water 2022	0	0	0	176	0	176
Renewal of City Assets Total	250	33	0	46,583	14,000	60,866

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Project Description	Revenues	Develop. Charges	Develop. Charges Debt	Rate Supported	Rate Supported Debt	Grand Total
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Growth						
902206 Ottawa South Pumping Station Upgrade	0	0	423	407	0	830
907100 Carp Well Capacity Increase	467	0	0	570	0	1,037
910050 Manotick Supply Watermain - Phase 2	0	0	10,030	9,258	0	19,288
910395 2022 Off Site Reliability Links	0	150	0	17	0	167
910397 2022 Rural Servicing Strategy	0	110	0	110	0	220
910399 2022 Water & Wastewater Studies	0	415	0	104	0	519
Growth Total	467	675	10,453	10,466	0	22,061

Regulatory						
910528 Water Efficiency 2022	0	0	0	150	0	150
Regulatory Total	0	0	0	150	0	150

Drinking Water Services Total	717	708	10,453	57,199	14,000	83,077
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Integrated Roads, Water & Wastewater						
Renewal of City Assets						
906735 Bank St (Riverside-Ledbury)	0	130	0	16,898	4,000	21,028
906900 Main Greenfield Echo Concord et al	0	170	0	20,287	0	20,457
908139 Montreal Rd (N River Rd-St Laurent Blvd)	0	10	0	1,210	0	1,220
908141 ORAP Albert St-Bronson Ave-Slater St	0	40	0	3,599	3,000	6,639
908580 CWWF Queensway Terrace North Sewer	0	0	0	3,139	0	3,139
908581 Valley Dr Storm Sewer	0	0	0	2,701	0	2,701
909012 Bronson Ave (Arlington-Rideau Canal)	0	10	0	873	0	883
909401 Broadview Ave	0	0	0	244	0	244
910085 Valley Dr Storm Sewer Phase 2	0	0	0	640	2,000	2,640
910390 2022 Aerial Mapping Services	0	0	0	219	0	219
910421 2022 Infrastructure Assess & Data Collec	0	13	0	287	0	300
910422 2022 Integrated Scoping Pre/Post Eng	0	0	0	1,573	0	1,573
910423 2022 Road Resurfacing - CW	0	0	0	4,563	0	4,563

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Project Description	Revenues	Develop. Charges	Develop. Charges Debt	Rate Supported	Rate Supported Debt	Grand Total
910424 2022 Comprehensive Asset Management	0	0	0	1,233	0	1,233
910432 Quality Management System	0	0	0	1,063	0	1,063
910433 St Joseph PS Decomission-Bruyere&Cathcar	0	0	0	806	0	806
910434 Highland Ave (Princeton to Dovercourt)	0	0	0	736	0	736
910473 Viscount Ave	0	0	0	767	0	767
910474 Ella St - Ralph St	0	0	0	981	0	981
910475 Hilda St - Manchester Ave	0	0	0	537	0	537
Renewal of City Assets Total	0	373	0	62,356	9,000	71,729

Integrated Roads, Water & Wastewater Total	0	373	0	62,356	9,000	71,729
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Integrated Water & Wastewater						
Renewal of City Assets						
910435 McLeod (Elgin - Metcalfe)	0	0	0	1,200	0	1,200
910436 Riverside Dr Sewer Industrial-Transitway	0	0	0	1,380	1,000	2,380
910437 Easement Agreements Update	0	0	0	2,500	1,500	4,000
910438 2022 Hydraulic Structures	0	0	0	1,000	0	1,000
910439 2022 Sewer Repairs / Improvements	0	0	0	2,500	4,500	7,000
910440 2022 Sewer Trenchless Rehab	0	0	0	1,000	2,000	3,000
910441 2022 Sewer CCTV Engineering	0	0	0	800	0	800
910552 Data Analytics Roll Out Water Services	0	0	0	130	0	130
910554 Maximo Scheduler	0	0	0	500	0	500
910555 Water and Wastewater Plants Mobility	0	0	0	500	0	500
Renewal of City Assets Total	0	0	0	11,510	9,000	20,510

Integrated Water & Wastewater Total	0	0	0	11,510	9,000	20,510
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Stormwater Services						
Renewal of City Assets						
909748 Mud Creek Stream Renewal	0	0	0	104	0	104
910081 2021 Drainage Culverts - CW	0	0	0	6,910	6,000	12,910

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Project Description	Revenues	Develop. Charges	Develop. Charges Debt	Rate Supported	Rate Supported Debt	Grand Total
910420 2022 Flood Plain Mapping	0	0	0	228	0	228
910448 2022 Drainage Culverts - CW	0	0	0	488	1,000	1,488
910449 2022 Drainage Culverts - Other	0	0	0	594	0	594
910450 2022 Culverts Scoping Pre/Post Eng.	0	0	0	700	0	700
910451 2022 Drainage Culverts - Site-Specific	0	0	0	0	1,500	1,500
910452 2022 Drainage Culvert - Site Spec-Other	0	0	0	133	0	133
910453 2022 Drainage Culverts Assessment	0	0	0	400	0	400
910461 2022 Storm and Surface Water Rehab	0	0	0	0	1,500	1,500
910462 2022 Ditch Alterations	0	0	0	50	0	50
910516 Stormwater Mgmt: Rehab&Enviro Compl 2022	0	0	0	460	1,500	1,960
Renewal of City Assets Total	0	0	0	10,067	11,500	21,567

Growth						
907900 DCA-Mud Creek Erosion Monito E3 Glou EUC	0	156	0	0	0	156
909730 2020 Stormwater Master Planning	0	194	0	194	0	388
Growth Total	0	350	0	194	0	544

Regulatory						
910515 Municipal Drain Improvements - 2022	550	0	0	100	0	650
Regulatory Total	550	0	0	100	0	650

Stormwater Services Total	550	350	0	10,361	11,500	22,761
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Wastewater Services						
Renewal of City Assets						
908250 Infrastructure Planning Information Mgmt	0	0	0	468	0	468
909724 Pump Stations Capacity Renewal	0	0	0	2,173	0	2,173
910048 2021 Infrastructure Master Plan (Sewer)	0	0	0	259	0	259
910463 2022 ORAP Wet Weather IMP	0	0	0	500	500	1,000
910530 New Vehicles Wastewater 2022	0	0	0	250	0	250
910531 SCADA Rehab & Upgrades-Remote Sewer 2022	0	0	0	2,000	2,000	4,000

City Of Ottawa
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Project Description	Revenues	Develop. Charges	Develop. Charges Debt	Rate Supported	Rate Supported Debt	Grand Total
910532 Collection System Condition Assess. 2022	0	0	0	660	500	1,160
910533 Sewer Lateral Repairs 2022	0	0	0	2,500	2,000	4,500
910534 Sewage Pumping Station Rehab Prog 2022	0	0	0	11,204	5,000	16,204
910535 ROPEC - Sewage Treatment Rehab Prog 2022	0	0	0	10,263	5,000	15,263
910536 Wastewater Facilites Upgrade 2022	0	0	0	250	250	500
910537 Wastewater Drainage Roofing 2022	0	0	0	80	0	80
910538 ROPEC - SCADA Rehab. & Upgrades 2022	0	0	0	1,300	1,000	2,300
910539 Lab Equipment Purchase/Replacement 2022	0	0	0	100	250	350
Renewal of City Assets Total	0	0	0	32,007	16,500	48,507

Growth						
907382 ROPEC Aeration Blower Expansion	0	1,000	0	0	0	1,000
907462 Pump Stations Capacity Increase	0	0	4,257	0	0	4,257
907463 Stittsville PS Gravity Connect	0	73	0	168	0	241
909992 Richmond Pump Station	0	7,378	0	2,459	0	9,837
910076 Carp Wastewater PS Upgrade/Overflow	933	0	0	1,141	0	2,074
Growth Total	933	8,451	4,257	3,768	0	17,409

Service Enhancements						
910398 Shirley's Brook Upgrade (KNUEA)	0	0	0	363	0	363
Service Enhancements Total	0	0	0	363	0	363

Wastewater Services Total	933	8,451	4,257	36,138	16,500	66,279
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Grand Total	2,200	9,882	14,710	177,564	60,000	264,356
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* Integrated Roads, Water and Wastewater Program includes the Rate portion only for information purposes.