



## GENERAL ISSUES COMMITTEE (RATE BUDGET) REPORT 18-020

9:30 a.m.

Thursday, December 6, 2018

Council Chambers

Hamilton City Hall

71 Main Street West

**Present:** Mayor Eisenberger, Deputy Mayor J. Farr (Chair)  
Councillors M. Wilson, N. Nann, S. Merulla, C. Collins, T. Jackson,  
E. Pauls, J.P. Danko, B. Clark, M. Pearson, B. Johnson, L. Ferguson,  
A. VanderBeek, T. Whitehead, J. Partridge

### THE GENERAL ISSUES COMMITTEE PRESENTS REPORT 18-020 AND RESPECTFULLY RECOMMENDS:

**1. Alectra Utilities Water, Wastewater and Storm 2018 Service Activity Report (FCS18086) (City Wide) (Item 5.1)**

That Report FCS18086, respecting the Alectra Utilities Water, Wastewater and Storm 2018 Service Activity Report, be received.

**2. 2019 Recommended Water, Wastewater and Stormwater Budget (FCS18087) (City Wide) (Item 5.2)**

(a) That the metered water consumption charges for residential properties in the City of Hamilton be imposed at the following rates, effective January 1, 2019:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.78
10 +	1.55

(b) That the metered water consumption charge for commercial, industrial, institutional and multi-residential (bulk meter) properties in the City of Hamilton be imposed at the rate of \$1.55 per cubic metre, effective January 1, 2019;

- (c) That daily water fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2019:

Meter Size	Daily Water Rate
15 mm	\$0.36
16 mm	\$0.36
20 mm	\$0.36
21 mm	\$0.36
25 mm	\$0.90
38 mm	\$1.80
50 mm	\$2.88
75 mm	\$5.76
100 mm	\$9.00
150 mm	\$18.00
200 mm	\$28.80
250 mm	\$41.40
300 mm	\$61.20

- (d) That the wastewater / storm treatment charges for residential properties in the City of Hamilton be imposed at the following rates, effective January 1, 2019:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.84
10 +	1.68

- (e) That the wastewater / storm treatment charge for all commercial, industrial, institutional and multi-residential (bulk meter) properties in the City of Hamilton be imposed at the rate of \$1.68 per cubic metre, effective January 1, 2019;
- (f) That daily wastewater/storm fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2019:

Meter Size	Daily Wastewater / Storm Rate
15 mm	\$0.38
16 mm	\$0.38
20 mm	\$0.38
21 mm	\$0.38
25 mm	\$0.95

38 mm	\$1.90
50 mm	\$3.04
75 mm	\$6.08
100 mm	\$9.50
150 mm	\$19.00
200 mm	\$30.40
250 mm	\$43.70
300 mm	\$64.60

- (g) That the residential non-metered annual water rate be imposed at the flat rate of \$565.75 per annum, effective January 1, 2019;
- (h) That the residential non-metered annual wastewater / storm rate be imposed at the flat rate of \$613.20 per annum, effective January 1, 2019;
- (i) That the residential combined non-metered annual water and wastewater / storm rate be imposed at the flat rate of \$1,178.95 per annum, effective January 1, 2019;
- (j) That the Private Fire Line rates be imposed at the following rates, effective January 1, 2019:

Connection Size		Monthly Rate
mm	inches	
25	1.0	\$3.42
38	1.5	\$7.87
50	2.0	\$13.68
75	3.0	\$30.78
100	4.0	\$54.72
150	6.0	\$123.12
200	8.0	\$218.88
250	10.0	\$218.88
300	12.0	\$218.88

- (k) That the 2019 Water, Wastewater and Storm Proposed User Fees and Charges be imposed, as per Appendix "A" to Report 18-020, effective January 1, 2019;
- (l) That charges for raw water supplied to 690 Strathearne Avenue North by the City of Hamilton be imposed at the following rates, effective January 1, 2019:
  - (i) metered raw water at the rate of \$0.1163 per cubic metre; and,

- (ii) daily raw water fixed charges at the following rates:

Meter Size	Daily Rate
200 mm	\$28.80

- (m) That the 2019 Water, Wastewater and Stormwater Rate Supported Operating Budget in the amount of \$222,259,479 be approved as per Appendix “B” to Report 18-020;
- (n) That the long-term financing plan for the Water, Wastewater and Stormwater programs and related rate increases required to meet sustainable financing, as identified in the 2019-2028 Water, Wastewater and Stormwater Rate Supported Operating Budget forecast (Appendix “B” to Report 18-020) be approved, in principle;
- (o) That the 2019 Water, Wastewater and Stormwater Rate Supported Capital Budget and Financing Plan in the amount of \$284,141,000, be approved as per Appendices “C”, “D as amended”, “E” and “F as amended” to Report 18-020;
- (p) That the 2019-2028 Water, Wastewater and Stormwater Rate Supported Capital Budget forecast and financing plan (Appendix “G” to Report 18-020), be approved, in principle;
- (q) That the City Solicitor be authorized and directed to prepare, for Council approval, all necessary by-laws respecting the 2019 water and wastewater / storm user fees, charges and rates set out in recommendations (a) through (l) of Report FCS18087;
- (r) That the additional 7.0 Full Time Equivalent Rate Supported Staffing, be approved as per Appendix “H” to Report 18-020;
- (s) That the operating impacts referred to the 2019 Rate budget, as outlined in Report PW18089, respecting a property acquisition in Stoney Creek and the supporting Capital Financing plan, be approved as per Confidential Appendix “T” to Report FCS18087;
- (t) That the Acting General Manager, Finance and Corporate Services, be authorized to negotiate the terms and placement of a debenture issue(s), and / or private placement debenture issue(s), in either a public or private market and / or bank loan agreement and debenture issue(s) and / or variable interest rate bank loan agreement and debenture issue(s), in an amount not to exceed \$94,390,000 Canadian currency, as attached in Appendices “C”, “D” and “E” to Report 18-020, which includes \$23,941,000 in Rate Supported

municipal debt and \$70,449,000 in Development Charges Rate Supported municipal debt;

- (u) That the Acting General Manager, Finance and Corporate Services, be authorized to engage the services of all required professionals to secure the terms and issuance of the debenture issue(s) described in subsection (t) including, but not limited to, external legal counsel, fiscal agents and Infrastructure Ontario's Loan Program;
- (v) That the Acting General Manager, Finance and Corporate Services, Mayor and City Clerk are each authorized and directed to enter into and / or execute, on behalf of the City of Hamilton, all agreements and necessary ancillary documents requiring their respective signatures, to secure the terms and issuance of the debenture issue(s) described in subsections (t), and (u), in a form satisfactory to the City Solicitor;
- (w) That the Mayor and City Clerk are authorized and directed to enter into and / or execute, on behalf of the City of Hamilton, all agreements and necessary ancillary documents not requiring any specific signing authority, to secure the terms and issuance of the debenture issue(s) described in subsections (t) and (u), in a form satisfactory to the City Solicitor and with content acceptable to the Acting General Manager, Finance and Corporate Services;
- (x) That all necessary By-Law(s) be passed to authorize the debenture issue(s) negotiated, placed and secured in accordance with subsections (t), (u), (v) and (w);
- (y) That the Airport Employment Growth District (AEGD) Infrastructure Growth Initiative (English Church Road Area), to be funded as follows, be approved in the amount of \$11 Million and be added to the City's 2019 Rates Capital Budget:
  - (i) \$6.93 Million from the City's Linear Wastewater Residential Development Charge Reserve (110340); and,
  - (ii) \$4.07 Million from the City's Linear Wastewater Non-Residential Development Charge Reserve (110341); and,
- (z) That the matter respecting the \$11 Million Airport Employment Growth District Infrastructure Growth (English Church Road Area) Initiative be referred to the Development Charge Background Study; and,
- (aa) That Appendix "T" to Report FCS18087, respecting the 2019 Recommended Water, Wastewater and Stormwater Budget, remain confidential.

**FOR INFORMATION:**

**(a) CHANGES TO THE AGENDA (Item 1)**

The Committee Clerk advised that, although the following points are not changes to the agenda, the Committee should be advised:

5.2 2019 Recommended Water, Wastewater and Stormwater Budget (FCS18087) (City Wide)

There is a typographical error to sub-section (l) of the recommendations (page 4) – the Daily Rate shown as “\$30.40” should read “**\$28.80**”.

Staff have brought forward an amending motion for Committee’s consideration with respect to Report FCS18087.

The agenda for the December 6, 2018 General Issues Committee (Budget) meeting, was approved, as presented.

**(b) DECLARATIONS OF INTEREST (Item 2)**

There were no declarations of interest.

**(c) STAFF PRESENTATIONS (Item 4)**

**(i) Alectra Utilities Water, Wastewater and Storm 2018 Service Activity Report (FCS18086) (City Wide) (Item 5.1)**

Eileen Campbell, Vice President of Customer Service for Alectra, addressed Committee and provided a PowerPoint presentation respecting Report FCS18086, the Alectra Utilities Water, Wastewater and Storm 2018 Service Activity Report.

The presentation, respecting Report FCS18086, the Alectra Utilities Water, Wastewater and Storm 2018 Service Activity Report, was received.

The presentation is available on the City’s website at [www.hamilton.ca](http://www.hamilton.ca) or through the Office of the City Clerk.

For disposition of this matter, please refer to Item 1.

(ii) **2019 Recommended Water, Wastewater and Stormwater Budget (FCS18087) (City Wide) (Item 5.2)**

Andrew Grice, Director of Hamilton Water, addressed Committee and provided the first of two presentations respecting Report FCS18087.

The first (Public Works) presentation, respecting Report FCS18087, 2019 Recommended Water, Wastewater and Stormwater Budget, was received.

The presentation is available on the City's website at [www.hamilton.ca](http://www.hamilton.ca) or through the Office of the City Clerk.

Brian McMullen, Acting General Manager, Finance & Corporation Services Department, addressed Committee and provided the second (Finance) presentation respecting Report FCS18087, 2019 Recommended Water, Wastewater and Stormwater Budget.

The second (Finance) presentation, respecting Report FCS18087, 2019 Recommended Water, Wastewater and Stormwater Budget, was received.

The presentation is available on the City's website at [www.hamilton.ca](http://www.hamilton.ca) or through the Office of the City Clerk.

(a) That Report FCS18087, respecting the 2019 Recommended Water, Wastewater and Stormwater Budget, be amended by adding new sub-sections (y) and (z), to read as follows:

(y) That the Airport Employment Growth District (AEGD) Infrastructure Growth Initiative (English Church Road Area), to be funded as follows, be approved in the amount of \$11 Million and be added to the City's 2019 Rates Capital Budget:

(i) \$6.93 Million from the City's Linear Wastewater Residential Development Charge Reserve (110340); and,

(ii) \$4.07 Million from the City's Linear Wastewater Non-Residential Development Charge Reserve (110341);

(z) That the matter respecting the \$11 Million Airport Employment Growth District Infrastructure Growth (English Church Road Area) Initiative be referred to the Development Charge Background Study.

- (b) That sub-section (o) to Report FCS18087, respecting the 2019 Recommended Water, Wastewater and Stormwater Budget, be amended by deleting the dollar amount of "\$273,141,000" and replacing it with the dollar amount of "\$284,141,000".

For disposition of this matter, please refer to Item 2.

**(e) ADJOURNMENT (Item 11)**

There being no further business, the General Issues Committee adjourned at 12:46 p.m.

Respectfully submitted,

J. Farr, Deputy Mayor  
Chair, General Issues Committee

Stephanie Paparella  
Legislative Coordinator  
Office of the City Clerk



**CITY OF HAMILTON**  
**2019 WATER AND WASTEWATER/STORM FEES AND CHARGES**  
**Effective January 1, 2019**

**A) Daily Water & Wastewater/Storm Fixed Charges**

The fixed daily charge is not related to the direct costs of consumption and are not dependent upon or related to the amount of consumption incurred. The fixed charges are intended to offset the fixed costs of maintaining the water, wastewater and storm systems.

Meter Size	Water Rate	Wastewater/ Storm Rate
15 mm	\$ 0.36	\$ 0.38
16 mm	\$ 0.36	\$ 0.38
20 mm	\$ 0.36	\$ 0.38
21 mm	\$ 0.36	\$ 0.38
25 mm	\$ 0.90	\$ 0.95
38 mm	\$ 1.80	\$ 1.90
50 mm	\$ 2.88	\$ 3.04
75 mm	\$ 5.76	\$ 6.08
100 mm	\$ 9.00	\$ 9.50
150 mm	\$ 18.00	\$ 19.00
200 mm	\$ 28.80	\$ 30.40
250 mm	\$ 41.40	\$ 43.70
300 mm	\$ 61.20	\$ 64.60

**B) Metered Water Consumption Charges**

Water consumption shall be charged on a per cubic metre basis at the rates indicated in the table below. The total monthly Water Consumption Charge is the sum of usage in all blocks at the rate for each block.

Consumption Block	Monthly Water Consumption (m3)	Residential	Multi-Residential, Commercial, Institutional & Industrial
		Rate (\$/m3)	Rate (\$/m3)
1	0-10	0.78	1.55
2	>10	1.55	1.55

**C) Wastewater/Storm Treatment Charges**

Wastewater/Storm Treatment Charges are based on metered water consumption and the cost of wastewater collection and treatment, and stormwater management. Charges are on a per cubic metre basis at the rates indicated in the table below. The total monthly Wastewater/Storm Treatment Charge is the sum of usage in all blocks at the rate for each block.

Treatment Block	Monthly Water Consumption (m3)	Residential	Multi-Residential, Commercial, Institutional & Industrial
		Rate (\$/m3)	Rate (\$/m3)
1	0-10	0.84	1.68
2	>10	1.68	1.68

**D) Non-Metered Annual Water & Wastewater/Storm Rate**

Flat Rate Water Customers Annual Rate: \$565.75

Flat Rate Wastewater/Storm Customers Annual Rate: \$613.20

Combined Flat Rate Water & Wastewater/Storm Customers Annual Rate: \$1,178.95

## City of Hamilton - 2019 Private Fire Line Rates

This service shall consist of permanent unmetered connections to the main for the purpose of supplying water to private fire protection systems such as automatic sprinkler systems, standpipes and private hydrants. This service shall also include reasonable quantities of water used for testing check valves and other backflow protection devices.

### Unmetered Service

Size of Connection		Monthly Rate
mm	inches	
25	1	\$ 3.42
38	1.5	\$ 7.87
50	2	\$ 13.68
75	3	\$ 30.78
100	4	\$ 54.72
150	6	\$ 123.12
200	8	\$ 218.88
250	10	\$ 218.88
300	12	\$ 218.88

2019 PROPOSED USER FEES AND CHARGES

PUBLIC WORKS  
HAMILTON WATER

For Billing Purposes:  
Regular Hours: M - F: 7:00am - 4:30pm  
After Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2018 including HST (if applicable)	2019 Proposed Fee	HST (y/n)	2019 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease		
R84-026	510220	47220	1	WATER DISTRIBUTION Water Meter Permit Fee Note: Charged for first-time meter installations. Includes supply and installation of water meter and remote reading device by City and related inspection.	\$359.70	\$359.70	n	\$359.70	0.0%	Current fee achieves full cost recovery		
			1a)	16mm Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery		
			1b)	20mm Displacement	NA	NA	n	\$404.60	0.0%	New Fee		
			1c)	21mm Displacement	\$559.40	\$559.40	n	\$559.40	0.0%	Current fee achieves full cost recovery		
			1d)	25mm Displacement	\$886.76	\$886.76	n	\$886.76	0.0%	To achieve full cost recovery		
			1e)	38mm Displacement	\$1,218.80	\$1,218.80	n	\$1,218.80	0.0%	Current fee achieves full cost recovery		
			1f)	50mm Displacement	\$1,384.60	\$1,384.60	n	\$1,384.60	0.0%	Current fee achieves full cost recovery		
			1g)	50mm Turbine	\$3,316.40	\$3,316.40	n	\$3,316.40	0.0%	Current fee achieves full cost recovery		
			1h)	50mm Compound	\$3,794.55	\$3,794.55	n	\$3,794.55	0.0%	Current fee achieves full cost recovery		
			1i)	100mm Turbine	\$5,104.30	\$5,104.30	n	\$5,104.30	2.0%	To achieve full cost recovery		
			1j)	100mm Compound	\$5,206.07	\$5,206.07	n	\$5,206.07	2.0%	To achieve full cost recovery		
			1k)	100mm Fire Service Turbine	\$6,507.65	\$6,507.65	n	\$6,507.65	2.0%	To achieve full cost recovery		
			1l)	100mm Fire Service Compound	\$8,624.85	\$8,624.85	n	\$8,624.85	2.0%	To achieve full cost recovery		
			1m)	100mm Magnetic Flow Meter (Must be approved by Supervisor of Meter Operations)	\$8,725.55	\$8,725.55	n	\$8,725.55	2.0%	To achieve full cost recovery		
			1n)	100mm Fire Rated Magnetic Flow Meter (Must be approved by Supervisor of Meter Operations)	\$9,115.25	\$9,297.22	n	\$9,297.22	2.0%	To achieve full cost recovery		
			1o)	150mm Turbine	\$7,321.65	\$7,467.78	n	\$7,467.78	2.0%	To achieve full cost recovery		
			1p)	150mm Compound	\$10,026.65	\$10,226.88	n	\$10,226.88	2.0%	To achieve full cost recovery		
			1q)	150mm Fire Service Turbine	\$10,812.50	\$11,028.42	n	\$11,028.42	2.0%	To achieve full cost recovery		
			1r)	150mm Magnetic Flow Meter (Must be approved by Supervisor of Meter Operations)	\$10,967.30	\$11,186.31	n	\$11,186.31	2.0%	To achieve full cost recovery		
			1s)	150mm Fire Rated Magnetic Flow Meter (Must be approved by Supervisor of Meter Operations)	\$12,093.00	\$12,334.54	n	\$12,334.54	2.0%	To achieve full cost recovery		
R84-026	510220	45519	1)	150mm Fire Service Compound	\$13,680.95	\$13,954.24	n	\$13,954.24	2.0%	To achieve full cost recovery		
			1u)	200mm Turbine	\$8,841.40	\$8,998.80	n	\$8,998.80	1.8%	To achieve full cost recovery		
			1v)	200mm Compound	\$11,879.80	\$12,097.96	n	\$12,097.96	1.8%	To achieve full cost recovery		
			1w)	200mm Magnetic Flow Meter (Must be approved by Supervisor of Meter Operations)	\$11,806.20	\$12,041.98	n	\$12,041.98	2.0%	To achieve full cost recovery		
			1x)	200mm Fire Rated Magnetic Flow Meter (Must be approved by Supervisor of Meter Operations)	\$12,902.70	\$13,160.41	n	\$13,160.41	2.0%	To achieve full cost recovery		
			1y)	200mm Fire Service Turbine	\$13,894.20	\$14,171.75	n	\$14,171.75	2.0%	To achieve full cost recovery		
			1z)	200mm Fire Service Compound	\$18,718.60	\$19,092.63	n	\$19,092.63	2.0%	To achieve full cost recovery		
			1aa)	250mm Turbine	\$15,166.05	\$15,496.05	n	\$15,496.05	2.2%	To achieve full cost recovery		
			1ab)	250mm Magnetic Flow Meter (Must be approved by Supervisor of Meter Operations)	\$14,133.40	\$14,415.75	n	\$14,415.75	2.0%	To achieve full cost recovery		
			1ac)	250mm Fire Rated Magnetic Flow Meter (Must be approved by Supervisor of Meter Operations)	\$16,729.05	\$17,063.33	n	\$17,063.33	2.0%	To achieve full cost recovery		
			1ad)	250mm Fire Service Turbine	\$18,334.00	\$19,312.34	n	\$19,312.34	2.0%	To achieve full cost recovery		
			1ae)	250mm Fire Service Compound	\$24,346.15	\$24,832.75	n	\$24,832.75	2.0%	To achieve full cost recovery		
			1af)	Radio Remote Read Equipment Installation	NA	\$209.80	n	\$209.80	N/A	\$209.80	N/A	New Fee
			2	Water Meter Removal Fee Note: Cost to remove a meter prior to the building being demolished and/or the water service being decommissioned or abandoned. Failure to have the meter removed prior to the building being demolished will incur a meter replacement cost charge. Does not include a turn water off fee, which is required and charged separately as per Section 14 of this schedule.	\$123.62	\$109.40	y	\$109.40	y	\$123.62	0.0%	Current fee achieves full cost recovery
			2a)	16mm Displacement	\$123.62	\$109.40	y	\$109.40	y	\$123.62	0.0%	Current fee achieves full cost recovery
			2b)	20mm Displacement	NA	NA	y	\$109.40	y	\$123.62	N/A	New Fee
			2c)	21mm Displacement	NA	NA	y	\$109.40	y	\$123.62	N/A	New Fee
			2d)	25mm Displacement	\$123.62	\$109.40	y	\$109.40	y	\$123.62	0.0%	Current fee achieves full cost recovery
2e)	38mm - 250mm Meters (cost depends on size, labour, and meter location)	Cost + 10% OH	Cost + 10% OH	y	Cost + 10% OH	y	Cost + 10% OH	N/A	Current fee achieves full cost recovery			
R84-026	510220	45519	3	Water Meter Inspection Services Note: Cost for customer requested service relating to meter investigation	\$123.62	\$109.47	y	\$123.70	0.1%	Current fee achieves full cost recovery		
			3a)	Regular Hours Inspection	\$161.93	\$143.32	y	\$161.95	0.0%	Current fee achieves full cost recovery		
			3b)	After Hours Inspection								

\* Costs not specifically addressed in the schedule will be invoiced at Actual Cost plus overhead  
\*\* For general inquiries, please call (905) 646-4426 between 8:30am - 4:30pm

2019 PROPOSED USER FEES AND CHARGES

PUBLIC WORKS  
HAMILTON WATER

For Billing Purposes:  
Regular Hours: M - F: 7:00am - 4:30pm  
After Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2018 including HST (if applicable)	2019 Proposed Fee	HST (y/n)	2019 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026	510220	45608	4	Replacement Cost for Lost Meter Note: Cost to replace a meter that has been lost, stolen or damaged. Includes meter, installation and administrative costs.						
			4a)	15mm Displacement	\$239.58	\$215.93	y	\$244.00	1.8%	To achieve full cost recovery
			4b)	16mm Displacement	\$239.58	\$215.93	y	\$244.00	1.8%	To achieve full cost recovery
			4c)	20mm Displacement	\$374.01	\$335.67	y	\$379.31	1.4%	To achieve full cost recovery
			4d)	21mm Displacement	\$0.00	\$335.67	y	\$379.31	N/A	New Fee
			4e)	25mm Displacement	\$430.28	\$386.46	y	\$436.70	1.5%	To achieve full cost recovery
			4f)	38mm Displacement	\$1,181.45	\$1,066.39	y	\$1,205.02	2.0%	To achieve full cost recovery
			4g)	50mm Turbine	\$1,465.95	\$1,297.30	y	\$1,465.95	0.0%	Current fee achieves full cost recovery
			4h)	50mm Displacement	\$1,804.05	\$1,596.50	y	\$1,804.05	0.0%	Current fee achieves full cost recovery
			4i)	50mm Compound	\$2,338.65	\$2,069.60	y	\$2,338.65	0.0%	Current fee achieves full cost recovery
			4j)	100mm Turbine	\$3,688.43	\$3,264.16	y	\$3,688.50	0.0%	Current fee achieves full cost recovery
			4k)	100mm Compound	\$5,959.17	\$5,273.63	y	\$5,959.20	0.0%	Current fee achieves full cost recovery
			4l)	100mm Fire Service Turbine	\$7,889.55	\$7,121.80	y	\$8,047.63	2.0%	To achieve full cost recovery
			4m)	100mm Fire Service Compound	\$9,947.31	\$8,802.92	y	\$9,947.30	0.0%	Current fee achieves full cost recovery
			4n)	100mm Magnetic Flow Meter	\$10,756.83	\$9,709.99	y	\$10,972.29	2.0%	To achieve full cost recovery
			4o)	100mm Fire Rated Magnetic Flow Meter	\$11,229.77	\$9,937.83	y	\$11,229.75	0.0%	Current fee achieves full cost recovery
			4p)	150mm Turbine	\$6,787.23	\$6,006.42	y	\$6,787.25	0.0%	Current fee achieves full cost recovery
			4q)	150mm Compound	\$10,327.97	\$9,139.82	y	\$10,328.00	0.0%	Current fee achieves full cost recovery
			4r)	150mm Fire Service Turbine	\$11,993.87	\$10,826.60	y	\$12,234.06	2.0%	To achieve full cost recovery
			4s)	150mm Fire Service Compound	\$15,235.20	\$13,752.42	y	\$15,540.23	2.0%	To achieve full cost recovery
			4t)	150mm Magnetic Flow Meter	\$12,255.19	\$10,845.31	y	\$12,255.20	0.0%	Current fee achieves full cost recovery
			4u)	150mm Fire Rated Magnetic Flow Meter	\$13,611.64	\$12,045.75	y	\$13,611.70	0.0%	Current fee achieves full cost recovery
			4v)	200mm Turbine	\$7,195.92	\$6,495.74	y	\$7,340.19	2.0%	To achieve full cost recovery
			4w)	200mm Compound	\$11,550.97	\$10,222.12	y	\$11,551.00	0.0%	Current fee achieves full cost recovery
			4x)	200mm Fire Service Turbine	\$15,803.69	\$14,265.39	y	\$16,119.89	2.0%	To achieve full cost recovery
			4y)	200mm Fire Service Compound	\$21,254.25	\$19,185.36	y	\$21,679.46	2.0%	To achieve full cost recovery
			4z)	200mm Magnetic Flow Meter	\$14,408.13	\$13,006.04	y	\$14,696.83	2.0%	To achieve full cost recovery
			4aa)	200mm Fire Rated Magnetic Flow Meter	\$15,735.16	\$14,203.88	y	\$16,050.38	2.0%	To achieve full cost recovery
			4ab)	250mm Turbine	\$12,504.00	\$11,287.26	y	\$12,754.60	2.0%	To achieve full cost recovery
			4ac)	250mm Magnetic Flow Meter	\$14,765.94	\$13,067.26	y	\$14,766.00	0.0%	Current fee achieves full cost recovery
			4ad)	250mm Fire Rated Magnetic Flow Meter	\$17,726.88	\$15,687.52	y	\$17,726.90	0.0%	Current fee achieves full cost recovery
			4ae)	250mm Fire Service Turbine	\$19,894.87	\$17,958.66	y	\$20,293.29	2.0%	To achieve full cost recovery
			4af)	250mm Fire Service Compound	\$29,046.42	\$25,704.87	y	\$29,046.50	0.0%	Current fee achieves full cost recovery
			4ag)	50mm Strainer	\$435.62	\$409.71	y	\$462.97	6.3%	To achieve full cost recovery
			4ah)	100mm Strainer	\$823.35	\$759.70	y	\$858.46	4.3%	To achieve full cost recovery
			4ai)	150mm Strainer	\$1,329.12	\$1,216.23	y	\$1,374.34	3.4%	To achieve full cost recovery
			4aj)	200mm Strainer	\$2,272.17	\$2,067.48	y	\$2,336.25	2.8%	To achieve full cost recovery
			4ak)	250mm Strainer	\$3,697.13	\$3,533.73	y	\$3,993.11	8.0%	To achieve full cost recovery
R84-026	510220	45690	5	Bench Testing Water Meters Note: Cost to have a water meter tested for accuracy. If the meter tests within the accuracy standards as set out by AWWA then the property owner is responsible for the cost of the test and the replacement cost of the water meter, otherwise cost borne by the City. Fee includes removal of existing meter and installation of replacement meter.						
			5a)	15 mm & 16 mm Diameter	\$334.51	\$308.67	y	\$348.80	4.3%	To achieve full cost recovery
			5b)	16-25mm Diameter - Test where meter has been removed from service within prior 90 days	NA	\$127.60	y	\$144.19	N/A	New Fee
			5c)	20 mm Diameter	\$382.76	\$354.22	y	\$400.27	4.6%	To achieve full cost recovery
			5d)	25 mm Diameter	\$439.04	\$405.02	y	\$457.67	4.2%	To achieve full cost recovery
			5e)	38 mm Diameter	\$985.51	\$879.98	y	\$994.38	0.9%	To achieve full cost recovery
			5f)	50 mm Diameter	\$1,742.49	\$1,542.08	y	\$1,742.55	0.0%	Current fee achieves full cost recovery
			5g)	100 mm plus diameter (In Situ testing)	\$1,010.45	\$897.60	y	\$1,014.29	0.4%	To achieve full cost recovery

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2019 PROPOSED USER FEES AND CHARGES

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Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2018 including HST (if applicable)	2019 Proposed Fee	HST (y/n)	2019 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
10-103	510220	45644	6	<b>Backflow Prevention Program</b> Note: Costs for contractor registration fee, administration fees for processing backflow prevention test reports and survey forms.	\$148.30	\$133.53	y	\$150.89	1.7%	To achieve full cost recovery
			6a)	Annual Program Registration Fee	\$171.50	\$64.26	y	\$176.11	1.6%	To achieve full cost recovery
			6b)	Test Report receipt and processing (per submission of each test report)	\$175.00	\$158.55	y	\$179.16	1.8%	To achieve full cost recovery
			6c)	Cross Connection Survey Form processing (per form upon submission)	\$156.35	\$140.80	y	\$159.10	1.8%	To achieve full cost recovery
			6d)	Backflow Prevention Device Investigation - Regular Hours	\$233.80	\$206.90	y	\$233.80	0.0%	Current fee achieves full cost recovery
			6e)	Backflow Prevention Device Investigation - After Hours						
R84-026	514330	45550	7	<b>Construction Water</b> Note: Charge for unmetered water used for construction prior to meter installation. Paid at the time of submitting building permit payment.	\$91.40	\$95.05	n	\$95.05	4.0%	Equal to variable water rate increase
			7a)	Single Residential (per lot or townhouse)	\$42.75	\$44.45	n	\$44.45	4.0%	Equal to variable water rate increase
			7b)	Multi-residential (per apartment/condo unit)	\$30.00	\$31.20	n	\$31.20	4.0%	Equal to variable water rate increase
			7c)	Industrial/Commercial/Institutional (\$71,000 sqft of building area or \$/ha where no structure is constructed)						
			8	<b>Hydrant Adaptor Fees</b> Note: Costs to install or remove water meter & backflow prevention device. When moving a hydrant adaptor from one site to another for the same customer, both removal & installation fees apply. This service requires a usage deposit and a damage deposit.	\$2.25	\$2.35	n	\$2.35	4.4%	Rate is 1.5x volumetric water rate
R84-026	514330	41208	8a)	Usage Cost (Metered Hauled Water Rate/m <sup>3</sup> )	\$137.98	\$145.90	n	\$145.90	5.7%	To achieve full cost recovery
R84-026	514330	41209	8b)	Hydrant Adaptor Connection/Disconnection Fee (Regular Hours-Fee for Both Services)	\$263.72	\$274.40	n	\$274.40	4.0%	To achieve full cost recovery
R84-026	514330	41209	8c)	Hydrant Adaptor Connection/Disconnection Fee (After Hours/Emergency-Fee for Both Services)	\$290.70	\$300.00	n	\$300.00	3.2%	Deposit rounded to the nearest \$100
R84-026	514330	41209	8d)	Non-Refundable Usage Deposit	\$5,829.00	\$6,000.00	n	\$6,000.00	2.9%	Deposit rounded to the nearest \$100
R84-026	514330	41209	8e)	Security/Damage Deposit	\$80.00	\$81.30	n	\$81.30	1.6%	To achieve full cost recovery
R84-026	514330	41209	8f)	Hydrant adaptor rental fee for initial 7 days	\$5.90	\$6.02	n	\$6.02	2.0%	To achieve full cost recovery
R84-026	514330	41209	8g)	Per Diam hydrant adaptor rental fee after initial 7 days						
R84-026	514330	47244	9	<b>Private Water Station Agreement Fees</b>						
			9a)	Annual Renewal	\$358.30	\$357.80	n	\$357.80	-0.1%	To achieve full cost recovery
			9b)	New Application	\$1,193.65	\$1,217.22	n	\$1,217.22	2.0%	To achieve full cost recovery
R84-026	514330	47232	10	<b>Water Haulage Fees</b>						
			10a)	Annual Water Haulage License Fee	\$56.50	\$57.33	y	\$64.78	14.7%	No cards issued, Online Registration
			10b)	Account review	\$146.45	\$87.68	y	\$99.08	-32.3%	To achieve full cost recovery
				Note: Annual license fee to utilize the City's public filling stations. Note: Costs charged for administrative services to provide customer account information for personal or taxation purposes.						
R84-026	510220	45519	11	<b>General Administration Fees</b>						
			11a)	General Administrative Requests (per hour)/Report Requests	\$76.50	\$68.71	y	\$77.64	1.5%	To achieve full cost recovery
			11b)	Permit Cancellation administrative fee	\$45.80	\$41.03	y	\$46.36	1.2%	To achieve full cost recovery
			11c)	Permit Renewal Fee	\$45.80	\$41.03	y	\$46.36	1.2%	To achieve full cost recovery
			11d)	Lead Line Replacement Loan Application Fee	\$57.30	\$51.36	y	\$58.04	1.3%	To achieve full cost recovery
			11e)	Monthly AMI Manual Meter Read Fee	\$3.39	\$3.00	y	\$3.39	0.0%	Current fee achieves full cost recovery
			11f)	Water Shut-off Admin Fee	NA	\$20.00	y	\$22.60	0.0%	New Fee
			11g)	Water Shut-off Notice on Door	NA	\$25.00	y	\$28.25	0.0%	New Fee

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R84-026			12	<b>Water Inspection Services</b> Note: Costs associated with various permit and inspection services related to water services for properties.						
	514330	47235	12a)	Private Water Service Repair/Replacement Inspection (Reg Hours - Max 1 Hour Total Labour)	\$96.40	\$92.97	Y	\$105.06	9.0%	To achieve full cost recovery
	514330	47235	12b)	Private Water Service Repair/Replacement Inspection (After Hours /Emerg - Max 1 Hour Labour)	\$168.40	\$157.17	Y	\$177.60	5.5%	To achieve full cost recovery
	514330	45690	12c)	Water Service Abandonment Inspection (Regular Hours -Max 1 Hour Total Labour)	\$86.43	\$82.95	Y	\$93.73	8.4%	To achieve full cost recovery
	514330	45690	12d)	Water Service Abandonment Inspection (After Hours / Emergency - Max 1 Hour Total Labour)	\$157.48	\$147.19	Y	\$166.32	5.6%	To achieve full cost recovery
	514330	45690	12e)	Water Service Inspection for Demolition (Regular Hours -Max 1 Hour Total Labour)	\$86.43	\$82.95	Y	\$93.73	8.4%	To achieve full cost recovery
	514330	45690	12f)	Water Service Inspection for Demolition (After Hours / Emergency - Max 1 Hour Total Labour)	\$157.48	\$147.19	Y	\$166.32	5.6%	To achieve full cost recovery
	514330	45690	12g)	Missed or Cancelled Inspection	\$61.44	\$60.40	Y	\$68.25	11.1%	To achieve full cost recovery
R84-026	514330	45690	13	<b>Upsize Public Portion Water Service from 20mm to 25mm</b> Note: Charge for upsizing a public portion water service from 20mm to 25mm, when a public portion water service replacement is already being completed by the City.	\$124.70	\$150.00	n	\$150.00	20.3%	To achieve full cost recovery
R84-026	514330	45679	14	<b>Turning Water Off or On</b> Note: Turning water off at the curb to enable a property owner to complete internal plumbing repairs, or a private water service repair or replacement, and then turning the water back on.						
			14a)	Turning Water On/Off (Regular Hours)	\$115.95	\$123.35	n	\$123.35	6.5%	To achieve full cost recovery
			14b)	Turning Water On/Off (After Hours/Emergency)	\$197.35	\$206.70	n	\$206.70	4.7%	To achieve full cost recovery
			14c)	Turning Water On/Off During the Same Visit (Regular Hours - Max 1/2 Hour Total Labour)	\$63.22	\$82.95	n	\$82.95	31.2%	To achieve full cost recovery
			14d)	Turning Water On/Off During the Same Visit (After Hours/Emerg - Max 1/2 Hour Total Labour)	\$106.17	\$113.35	n	\$113.35	6.8%	To achieve full cost recovery
			14e)	Non-compliance Turn Water Off	NA	\$82.95	n	\$82.95	0.0%	New Fee
			14f)	Non-compliance Turn Water On	NA	\$82.95	n	\$82.95	0.0%	New Fee
R84-026	514330	45636	15	<b>Hydrant Flow Test / Water Quality Flushing</b> Note: Cost to operate a City Fire Hydrant(s) for a maximum of 1 hour total labour.	\$96.43	\$91.98	Y	\$103.94	7.8%	To achieve full cost recovery
R84-026	514330	45690	16	<b>Water Quality/Quantity Service Calls</b> Note: Cost for a service call to investigate a water quality/quantity complaint and the issue resides on private property. No charge for water quality/quantity complaints related to issues originating from the City's distribution system. Missed appointments will be billed the corresponding service call rate.						
			16a)	Service Call (Regular Hours - Max 1 Hour Total Labour)	\$86.43	\$82.95	Y	\$93.73	8.4%	To achieve full cost recovery
			16b)	Service Call (After Hours - Max 1 Hour Total Labour)	\$157.48	\$147.19	Y	\$166.32	5.6%	To achieve full cost recovery
R84-026	510290	45690	17	<b>Hydrant Repair, Replace or Relocate</b> Note: Cost to repair, replace, or relocate a City Fire Hydrant including labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	Y	Cost + 33% OH	N/A	To achieve full cost recovery
R84-026	514330	45690	18	<b>Watermain Shutdowns</b> Note: Costs associated with isolating a watermain to facilitate third party work.						
			18a)	Watermain Shutdown / Recharge (Regular Hours-Maximum 1 Hour Total Labour)	\$120.74	\$128.07	n	\$128.07	6.1%	To achieve full cost recovery
			18b)	Watermain Shutdown / Recharge (After Hours / Emergency-Maximum 1 Hour Total Labour)	\$220.86	\$230.54	n	\$230.54	4.4%	To achieve full cost recovery
R84-026	510350	45408	19	<b>Environmental Records Search PRISM Reports related to soil contamination</b> Reports - Environmental Assessments and Master Plans - plus fee per page	\$177.04	\$156.67	Y	\$177.04	0.0%	Current fee achieves full cost recovery
					\$17.40	\$15.40	Y	\$17.40	0.0%	Current fee achieves full cost recovery
					\$0.11	\$0.10	Y	\$0.11	0.0%	Current fee achieves full cost recovery
R84-026	514330	45690	20	<b>Miscellaneous Water Distribution System Repair</b> Note: Cost for the City to repair damage to the water distribution system caused by a third party. Costs include labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	Y	Cost + 33% OH	N/A	To achieve full cost recovery
R84-026	514330	45690	21	<b>Additional Labour Charges</b> Note: Additional labour charge for all services/calls that exceed the allotted labour time. Costs are for a single Water Distribution Operator in minimum increments of 30 minutes.						
			21a)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$41.95	\$22.57	Y	\$25.50	-39.2%	To achieve full cost recovery
			21b)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$54.45	\$33.85	Y	\$38.25	-29.8%	To achieve full cost recovery
			21c)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$37.12	\$22.55	n	\$22.55	-39.3%	To achieve full cost recovery
			21d)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$48.19	\$33.85	n	\$33.85	-29.8%	To achieve full cost recovery

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06-026	516175	47230	1	<b>COLLECTION SYSTEM INSPECTION &amp; MAINTENANCE</b> Wastewater Inspection Services Note: Costs associated with various permit and inspection services related to sewer laterals for properties. Private Sewer Lateral Repair/Replacement Inspection (Regular Hours - Maximum 1 Hour Total Labour)	\$106.90	\$96.02	Y	\$108.50	1.5%	To achieve full cost recovery
			1a)	Private Sewer Lateral Repair/Replacement Inspection (After Hours / Emergency - Maximum 1 Hour Total Labour)	\$189.81	\$203.45	Y	\$229.90	21.1%	To achieve full cost recovery
			1b)	Missed or Cancelled Inspection	\$66.18	\$69.17	Y	\$78.16	18.1%	To achieve full cost recovery
			1c)	Mainline Sewer Inspection	Cost + 33% OH	Cost + 33% OH	Y	Cost + 33% OH	N/A	To achieve full cost recovery
			1d)	Note: CCTV inspection of mainline sewers (storm, sanitary or combined). Cost based on linear meter inspection.						
06-026	516175	45690	2	<b>Sewer Related Service Calls</b> Note: Cost for a service call to investigate a sewer related complaint and the issue resides on private property. No charge for sewer complaints related to issues originating from the City's sewer system. Missed appointments will be billed the corresponding service call rate.	\$84.38	\$85.59	Y	\$96.72	14.6%	To achieve full cost recovery
			2a)	Service Call (Regular Hours - Maximum 1 Hour Total Labour)	\$152.84	\$172.15	Y	\$194.53	27.3%	To achieve full cost recovery
			2b)	Service Call (After Hours - Maximum 1 Hour Total Labour)						
06-026	516175	45690	3	<b>Sewer Lateral Cleaning and Investigation Fees</b> Note: When a property owner qualifies for the Sewer Lateral Management Program and chooses to hire their own Plumbing Contractor, these prices represent the maximum amounts that will be reimbursed to the property owner for the sewer lateral cleaning and investigation services performed by the independent Plumbing Contractor						
			3a)	Complete Sewer Lateral Investigation - Regular Hours	\$555.96	\$397.96	Y	\$449.69	-19.1%	Lower Contract Costs
			3b)	Complete Sewer Lateral Investigation - After Hours	\$663.31	\$439.57	Y	\$496.71	-25.1%	Lower Contract Costs
			3c)	Partial Sewer Lateral Cleaning - Regular Hours	\$328.83	\$130.05	Y	\$146.96	-55.3%	Lower Contract Costs
			3d)	Partial Sewer Lateral Cleaning - After Hours	\$379.68	\$182.07	Y	\$205.74	-45.8%	Lower Contract Costs
			3e)	Abandoned Sewer Lateral Investigation - Regular Hours	\$355.95	\$208.08	Y	\$235.13	-33.9%	Lower Contract Costs
			3f)	Abandoned Sewer Lateral Investigation - After Hours	\$433.92	\$260.10	Y	\$293.91	-32.3%	Lower Contract Costs
06-026	516175	45690	4	<b>Miscellaneous Wastewater Collection System Repair</b> Note: Cost for the City to repair damage to the wastewater collection system caused by a third party. Costs include labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	Y	Cost + 33% OH	N/A	To achieve full cost recovery
			5	<b>Additional Labour Charges</b> Note: Additional labour charge for all services/calls that exceed the allotted labour time. Costs are for a single Wastewater Collection Operator or Contract Inspector in minimum increments of 30 minutes.						
06-026	516175	45690	5a)	1/2 Hour Additional Labour (Regular Hours) - Wastewater Collection	\$43.81	\$21.64	Y	\$24.45	-44.2%	To achieve full cost recovery
			5b)	1/2 Hour Additional Labour (After Hours) - Wastewater Collection	\$57.25	\$32.48	Y	\$36.70	-35.9%	To achieve full cost recovery

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<b>LABORATORY SERVICES</b>									
<u>Inorganic Tests:</u>									
<b>Solids</b>									
510250	45519	1	Total Suspended Solids (TSS)	\$24.52	\$21.70	y	\$24.52	0.0%	Current fee achieves full cost recovery
		1a)	TSS plus Volatile Suspended Solids (VSS)	\$24.52	\$21.70	y	\$24.52	0.0%	Current fee achieves full cost recovery
		1b)	Total Solids (TS)	\$20.45	\$18.90	y	\$21.36	4.4%	To achieve full cost recovery
		1c)	TS plus Volatile Solids (VS)	\$20.68	\$19.60	y	\$22.15	7.1%	To achieve full cost recovery
		1d)							
<b>Skalar</b>									
		2	Total Cyanide	\$35.48	\$33.10	y	\$37.40	5.4%	To achieve full cost recovery
		2a)	Phenolics	\$34.92	\$30.90	y	\$34.92	0.0%	Current fee achieves full cost recovery
		2b)	Total Kjeldhal Nitrogen (TKN)	\$35.48	\$31.40	y	\$35.48	0.0%	Current fee achieves full cost recovery
		2c)	Ammonia	\$39.10	\$34.60	y	\$39.10	0.0%	Current fee achieves full cost recovery
		2d)	Dissolved Organic Carbon	\$36.50	\$34.10	y	\$38.53	5.6%	To achieve full cost recovery
		2e)	Total Organic Carbon	\$36.50	\$34.10	y	\$38.53	5.6%	To achieve full cost recovery
		2f)	Reactive Silica	\$31.08	\$27.70	y	\$31.30	0.7%	To achieve full cost recovery
		2g)		\$56.95	\$50.40	y	\$56.95	0.0%	Current fee achieves full cost recovery
<b>Ion Chromatography (IC Scan)</b>									
		3	PC Titrate	\$17.35	\$16.10	y	\$18.19	4.9%	To achieve full cost recovery
		4	pH	\$17.18	\$16.00	y	\$18.08	5.3%	To achieve full cost recovery
		4a)	Alkalinity	\$17.18	\$16.00	y	\$18.08	5.3%	To achieve full cost recovery
		4b)	Conductivity	\$26.89	\$24.30	y	\$27.46	2.1%	To achieve full cost recovery
		4c)	Fluoride	\$26.78	\$24.50	y	\$27.69	3.4%	To achieve full cost recovery
		4d)	Turbidity	\$28.59	\$25.30	y	\$28.59	0.0%	Current fee achieves full cost recovery
		5	UV Transmittance	\$23.39	\$22.30	y	\$25.20	7.7%	To achieve full cost recovery
		6	Color Apparent	\$23.39	\$22.30	y	\$25.20	7.7%	To achieve full cost recovery
		7	Color True	\$42.83	\$37.90	y	\$42.83	0.0%	Current fee achieves full cost recovery
		8	Chemical Oxygen Demand (COD)	\$42.60	\$37.70	y	\$42.60	0.0%	Current fee achieves full cost recovery
		9	Biochemical Oxygen Demand (BOD)	\$42.15	\$37.30	y	\$42.15	0.0%	Current fee achieves full cost recovery
		10	Volatlie Acid						
<u>Microbiology Tests:</u>									
		11	Total Coliform/E coli/Total Background Coliform (DC)	\$24.75	\$21.90	y	\$24.75	0.0%	Current fee achieves full cost recovery
510250	45519	12	EC (mFC-BIG)	\$27.35	\$27.40	y	\$30.96	13.2%	To achieve full cost recovery
510250	45519	13	Heterotrophic Plate Count	\$28.14	\$25.70	y	\$29.04	3.2%	To achieve full cost recovery
510250	45519	14	Micro Examination	\$130.52	\$135.30	y	\$152.89	17.1%	To achieve full cost recovery
<u>Metals:</u>									
		15	ICP	\$60.74	\$57.60	y	\$65.09	7.2%	To achieve full cost recovery
510250	45519	16	ICP OES Scan (Wastewater)	\$28.87	\$26.90	y	\$30.40	5.3%	To achieve full cost recovery
		16a)	Total Phosphorous	\$28.87	\$26.90	y	\$30.40	5.3%	To achieve full cost recovery
		16b)	Total Dissolved Phosphorous						
		16c)	ICP MS	\$60.74	\$57.60	y	\$65.09	7.2%	To achieve full cost recovery
510250	45519	17	ICP MS Scan	\$51.64	\$45.70	y	\$51.64	0.0%	Current fee achieves full cost recovery
		17a)	AA						
		18	Mercury						
510250	45519	18a)							

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14-090	516175	47232	1	<b>ENVIRONMENTAL MONITORING &amp; ENFORCEMENT</b> To Regulate the Discharge of any Matter into the Sanitary, Combined, and Storm Sewer Systems. <b>Annual Permit to Discharge Hauled Sewage</b> Note: Cost for administration and processing of annual permits required to haul sewage within Hamilton	\$324.00	\$324.00	n	\$324.00	0.0%	Current fee achieves full cost recovery
14-090	516175	41314	2	<b>Discharge fees for Hauled Sewage generated:</b> <b>Inside the City - Compliant</b> Note: Cost per truck full of sewage containing materials within Sewer Use By-law limits up to 1000 imperial gallons (4.54 m3) or any part thereof	\$48.20	\$49.15	n	\$49.15	2.0%	To achieve full cost recovery
14-090	516175	41314	2a)	greater than 1000 (4.54 m3) but less than or equal to 3500 imperial gallons (15.9m3)	\$48.20	\$49.15	n	\$49.15	2.0%	Has to remain a multiple of \$49.15
14-090	516175	41314	2c)	greater than 3500 (15.9 m3) but less than or equal to 5000 imperial gallons (22.7 m3)	\$96.39	\$98.30	n	\$98.30	2.0%	Has to remain a multiple of \$49.15
14-090	516175	41314	2d)	greater than 5000 (22.7 m3) but less than or equal to 8000 imperial gallons (36.3 m3)	\$144.59	\$147.45	n	\$147.45	2.0%	Has to remain a multiple of \$49.15
14-090	516175	41314	2e)	greater than 8000 (36.3 m3) but less than or equal to 10000 imperial gallons (45.43 m3)	\$192.78	\$196.60	n	\$196.60	2.0%	Has to remain a multiple of \$49.15
14-090	516175	41314	3	<b>Discharge fees for Hauled Sewage generated:</b> <b>Inside the City - Non-Compliant</b> Note: Cost per truck full of sewage containing materials that exceed one or more Sewer Use By-law limits	\$48.20	\$49.15	n	\$49.15	2.0%	To achieve full cost recovery
14-090	516175	41314	3a)	up to 1000 imperial gallons (4.54 m3) or any part thereof	\$96.39	\$98.30	n	\$98.30	2.0%	Has to remain a multiple of \$49.15
14-090	516175	41314	3b)	greater than 1000 (4.54 m3) but less than or equal to 3500 imperial gallons (15.9m3)	\$144.59	\$147.45	n	\$147.45	2.0%	Has to remain a multiple of \$49.15
14-090	516175	41314	3c)	greater than 3500 (15.9 m3) but less than or equal to 5000 imperial gallons (22.7 m3)	\$240.98	\$245.75	n	\$245.75	2.0%	Has to remain a multiple of \$49.15
14-090	516175	41314	3d)	greater than 5000 (22.7 m3) but less than or equal to 8000 imperial gallons (36.3 m3)	\$289.17	\$294.90	n	\$294.90	2.0%	Has to remain a multiple of \$49.15
14-090	516175	41314	3e)	greater than 8000 (36.3 m3) but less than or equal to 10000 imperial gallons (45.43 m3)	\$8.50	\$8.50	n	\$8.50	0.0%	Rounded for cash handling purposes
14-090	516175	41314	4	<b>Holding Tanks for Recreational Vehicles</b> Note: Cost for Recreational Vehicles (RV's) to dump sewer waste at the Mountain Transfer Station	\$8.50	\$8.50	n	\$8.50	0.0%	
14-090	516080	41315	5	<b>Overstrength Discharge Fees</b> Note: Cost per Kilogram of each specified parameter that is in excess of Sewer Use By-law limits, and subject to a Sewer Discharge Permit	\$0.77	\$0.78	n	\$0.78	2.0%	To achieve full cost recovery
14-090	516080	41315	5a)	Biochemical Oxygen Demand (charge per kg)	\$0.61	\$0.63	n	\$0.63	2.0%	To achieve full cost recovery
14-090	516080	41315	5b)	Total suspended solids (charge per kg)	\$0.65	\$0.66	n	\$0.66	2.0%	To achieve full cost recovery
14-090	516080	41315	5c)	Oil & grease (animal/vegetable) (charge per kg)	\$2.34	\$2.39	n	\$2.39	2.0%	To achieve full cost recovery
14-090	516080	41315	5d)	Total Kjeldahl Nitrogen (charge per kg)	\$1.65	\$1.68	n	\$1.68	2.0%	To achieve full cost recovery
14-090	516080	41315	5e)	Total Phosphorus (charge per kg)	\$1.61	\$1.68	n	\$1.68	4.3%	Equal to variable wastewater rate increase

\*Costs not specifically addressed in the schedule will be invoiced at Actual Cost plus overhead\*\*  
\*\*For general inquiries, please call 905-540-5190 or email: sewerusebylaw@hamilton.ca\*\*

**2019 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2018 including HST (if applicable)	2019 Proposed Fee	HST (y/n)	2019 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
			7	<b>Application Fees for Sewer Discharge Permits</b> NOTE: Fee to be paid upon application for Sewer Discharge Permit						
14-090	510260	45519	7a)	Application Fee	\$697.32	\$617.10	y	\$697.32	2.0%	Increase due to incorporating 7b) and 7c) fees into Application Fee
14-090	510260	45519	7b)	Wastewater Characterization deposit (optional)	\$500.00	\$500.00	n	\$500.00	0.0%	Decrease due to difficulty collecting \$1500 as deposit from users without PO #
14-090	510260	45519	7c)	Amendment Fee (all permit types)	\$320.92	\$289.68	y	\$327.34	2.0%	To achieve full cost recovery
			8	<b>Administrative Fees for Sewer Discharge Permits</b> Note: Multiple permit holders pay the higher administration fee (for example, if the permit holder has both an Overstrength Discharge Permit and a Compliance Program Permit, they will pay \$810.00 per quarter)						
14-090	510260	45532	8a)	Overstrength Discharge Permit (charged quarterly)	\$416.00	\$427.00	n	\$427.00	2.6%	Lab/equip. costs up in 2018. Previous 2015, 2012
14-090	510260	45532	8b)	Sanitary Discharge Permit (charged quarterly)	\$416.00	\$427.00	n	\$427.00	2.6%	Lab/equip. costs up in 2018. Previous 2015, 2012
14-090	510260	45532	8c)	Chloride Discharge Permit (charged quarterly)	\$416.00	\$427.00	n	\$427.00	2.6%	Lab/equip. costs up in 2018. Previous 2015, 2012
14-090	510260	45532	8d)	Compliance Discharge Permit (charged quarterly)	\$1,022.50	\$1,050.00	n	\$1,050.00	2.7%	Lab/equip. costs up in 2018. Previous 2015, 2012
14-090	510260	45532	8e)	Conditional Discharge Permit (charged quarterly)	\$1,022.50	\$1,050.00	n	\$1,050.00	2.7%	Lab/equip. costs up in 2018. Previous 2015, 2012
14-090	510260	45519	9	<b>Information Requests</b> Note: Fee per property for records search related to Sewer Use By-law historical violations	\$163.74	\$147.90	y	\$167.13	2.1%	To achieve full cost recovery
			10	<b>Wastewater Sampling (optional)</b> Note: Per unit costs to conduct wastewater sampling to determine permit conditions and limits						
14-090	510260	45532	10a)	Wastewater Sampling Vehicle Fee (per kilometer)	\$1.32	\$1.19	y	\$1.34	1.7%	To achieve full cost recovery
			10b)	Wastewater Sampling Technician Fee (per day)	\$40.68	\$38.90	y	\$43.96	8.1%	To achieve full cost recovery
			10c)	Wastewater Sampling Technician Fee (per hour) Mon - Fri	\$52.35	\$49.06	y	\$55.44	5.9%	EMT position - replaced by RFT one pay grade higher
			10d)	Wastewater Sampling Technician Fee (per hour) Sat	\$78.52	\$73.59	y	\$83.16	5.9%	EMT position - replaced by RFT one pay grade higher
			10e)	Wastewater Sampling Technician Fee (per hour) Sun	\$104.69	\$98.11	y	\$110.86	5.9%	EMT position - replaced by RFT one pay grade higher

\*Costs not specifically addressed in the schedule will be invoiced at Actual Cost plus overhead  
For general inquiries, please call 905-546-5730 or email sewerusebylaw@hamilton.ca

**2019 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2018 including HST (if applicable)	2019 Proposed Fee	HST (y/n)	2019 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				ENVIRONMENTAL MONITORING & ENFORCEMENT Fees related to the Wastewater Abatement Program						
03-272	510260	45532	1	Application Fee (plus cost recovery for peer review if required)	\$423.19	\$374.50	y	\$423.19	0.0%	Current fee achieves full cost recovery
03-272	510260	45532	2	Annual Administration Fee	\$783.43	\$712.80	y	\$805.46	2.8%	To achieve full cost recovery

\*Costs not specifically addressed in the schedule will be invoiced at Actual Cost plus overhead\*\*  
 \*\*For general inquiries, please call 905-540-5190 or email: sewerusebylaw@hamilton.ca\*

2019 HAMILTON WATER OPERATING BUDGET

**COMBINED WATER, WASTEWATER AND STORM**

	2018	2018	2019	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2018 PROJECTED ACTUAL / 2018 RESTATED BUDGET	%	2019 REQUESTED / 2018 RESTATED BUDGET	%
<u>OPERATING EXPENDITURES:</u>	\$	\$	\$	\$	%	\$	%
<b><u>Environmental Services</u></b>							
Divisional Administration & Support	2,079,860	1,926,480	2,242,620	153,380	7.4%	162,760	7.8%
Woodward Upgrades	1,220,310	1,703,560	1,524,540	(483,250)	(39.6%)	304,230	24.9%
Customer Service	432,400	322,600	421,610	109,800	25.4%	(10,790)	(2.5%)
Outreach & Education	1,325,620	1,214,070	1,350,860	111,550	8.4%	25,240	1.9%
Service Co-ordination	3,110,320	3,090,320	4,401,610	20,000	0.6%	1,291,290	41.5%
Engineering Systems & Data Collection	1,278,170	1,098,620	1,286,870	179,550	14.0%	8,700	0.7%
Compliance & Regulations	798,230	818,230	871,210	(20,000)	(2.5%)	72,980	9.1%
Laboratory Services	3,449,120	3,528,030	3,527,640	(78,910)	(2.3%)	78,520	2.3%
Environmental Monitoring & Enforcement	1,755,150	1,674,260	1,818,020	80,890	4.6%	62,870	3.6%
Water Distribution & Wastewater Collection	21,484,360	21,200,590	21,369,840	283,770	1.3%	(114,520)	(0.5%)
Plant Operations & Maintenance	43,041,230	43,238,620	41,383,390	(197,390)	(0.5%)	(1,657,840)	(3.9%)
Capital Delivery	1,865,830	1,717,340	1,859,660	148,490	8.0%	(6,170)	(0.3%)
Sustainable Initiatives	1,470,340	1,439,640	1,497,370	30,700	2.1%	27,030	1.8%
Infrastructure Planning & System Design	2,459,220	2,289,320	2,464,770	169,900	6.9%	5,550	0.2%
Wastewater Abatement Program	1,000,000	1,000,000	1,150,000	-	0.0%	150,000	15.0%
Alectra Utilities Service Contract	5,559,720	5,559,720	5,700,000	-	0.0%	140,280	2.5%
Corporate & Departmental Support Services	6,145,090	6,299,770	6,432,040	(154,680)	(2.5%)	286,950	4.7%
Utilities Arrears Program	500,000	500,000	500,000	-	0.0%	-	-
Gapping Target	-	-	(300,000)	-	-	(300,000)	-
Sewer Lateral Management Program	500,000	500,000	500,000	-	0.0%	-	-
Hamilton Harbour Remedial Action Plan	305,000	304,980	395,000	20	0.0%	90,000	29.5%
Protective Plumbing Program (3P)	2,000,000	1,199,980	1,250,000	800,020	40.0%	(750,000)	(37.5%)
Financial Charges	188,210	164,630	177,000	23,580	12.5%	(11,210)	(6.0%)
	101,968,180	100,790,760	101,824,050	1,177,420	1.2%	(144,130)	(0.1%)
Capital and Reserve Recoveries	(8,678,950)	(8,397,230)	(6,099,580)	(281,720)	3.2%	2,579,370	(29.7%)
<b>Sub-Total Environmental Services</b>	<b>93,289,230</b>	<b>92,393,530</b>	<b>95,724,470</b>	<b>895,700</b>	<b>1.0%</b>	<b>2,435,240</b>	<b>2.6%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Water Quality Initiatives	36,982,000	36,982,000	51,762,000	-	-	14,780,000	40.0%
Wastewater	45,474,000	45,474,000	42,837,000	-	-	(2,637,000)	(5.8%)
Stormwater	8,516,000	8,516,000	3,205,000	-	-	(5,311,000)	(62.4%)
<b>Sub-Total Contributions to Capital</b>	<b>90,972,000</b>	<b>90,972,000</b>	<b>97,804,000</b>	<b>-</b>	<b>-</b>	<b>6,832,000</b>	<b>7.5%</b>
<b><u>Contributions for DC Exemptions</u></b>							
Water Quality Initiatives	2,547,000	2,547,000	2,547,000	-	-	-	0.0%
Wastewater	4,590,000	4,590,000	4,590,000	-	-	-	0.0%
Stormwater	1,863,000	1,863,000	1,863,000	-	-	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>

2019 HAMILTON WATER OPERATING BUDGET

**COMBINED WATER, WASTEWATER AND STORM**

	2018	2018	2019	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2018 PROJECTED ACTUAL / 2018 RESTATED BUDGET	%	2019 REQUESTED / 2018 RESTATED BUDGET	%
<u>OPERATING EXPENDITURES:</u>	\$	\$	\$	\$	%	\$	%
<b>Capital Debt Charges</b>							
Water Quality Initiatives	9,448,542	6,582,511	9,762,487	2,866,031	30.3%	313,945	3.3%
Wastewater	8,737,296	7,012,631	10,120,380	1,724,665	19.7%	1,383,084	15.8%
Stormwater	1,839,143	651,022	3,950,054	1,188,121	64.6%	2,110,911	114.8%
DC Debt Charges Recoveries	(2,917,437)	(162,840)	(4,467,237)	(2,754,597)	94.4%	(1,549,800)	53.1%
<b>Sub-Total Debt Charges</b>	<b>17,107,544</b>	<b>14,083,324</b>	<b>19,365,685</b>	<b>3,024,220</b>	<b>17.7%</b>	<b>2,258,141</b>	<b>13.2%</b>
<b>Sub-Total Capital Financing</b>	<b>117,079,544</b>	<b>114,055,324</b>	<b>126,169,685</b>	<b>3,024,220</b>	<b>2.6%</b>	<b>9,090,141</b>	<b>7.8%</b>
<b>Reserve Transfers</b>	<b>494,513</b>	<b>1,458,810</b>	<b>365,324</b>	<b>(964,296)</b>	<b>(195.0%)</b>	<b>(129,189)</b>	<b>(26.1%)</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>117,574,058</b>	<b>115,514,134</b>	<b>126,535,009</b>	<b>2,059,924</b>	<b>1.8%</b>	<b>8,960,951</b>	<b>7.6%</b>
<b>TOTAL EXPENDITURES</b>	<b>210,863,288</b>	<b>207,907,664</b>	<b>222,259,479</b>	<b>2,955,624</b>	<b>1.4%</b>	<b>11,396,191</b>	<b>5.4%</b>
<b>REVENUES:</b>							
<b>Rate Revenue</b>							
Residential	92,860,600	90,865,306	97,938,766	(1,995,294)	(2.1%)	5,078,166	5.5%
Industrial/Commercial/Institutional/Multi-res	102,918,990	101,835,660	107,752,759	(1,083,330)	(1.1%)	4,833,769	4.7%
Haldimand	2,196,300	2,196,300	2,353,282	-	0.0%	156,982	7.1%
Halton	237,458	237,458	247,782	-	0.0%	10,324	4.3%
Raw Water	2,000	25,000	150,000	23,000	1150.0%	148,000	7400.0%
Non-Metered	550,000	550,000	580,000	-	0.0%	30,000	5.5%
Private Fire Lines	1,350,000	1,475,000	1,550,000	125,000	9.3%	200,000	14.8%
Hauler / 3rd Party Sales	1,475,000	1,475,000	1,225,000	-	0.0%	(250,000)	(16.9%)
Overstrength Agreements	2,249,480	2,249,480	2,249,480	-	0.0%	-	0.0%
Sewer Surcharge Agreements	4,000,000	4,000,000	5,200,000	-	0.0%	1,200,000	30.0%
<b>Sub-Total Utility Rates</b>	<b>207,839,828</b>	<b>204,909,204</b>	<b>219,247,069</b>	<b>(2,930,624)</b>	<b>(1.4%)</b>	<b>11,407,241</b>	<b>5.5%</b>
<b>Non-Rate Revenue</b>							
Local Improvement Recoveries	275,850	275,850	275,850	-	-	-	-
Permits / Leases / Agreements	1,439,600	1,439,600	1,365,050	-	-	(74,550)	(5.2%)
Investment Income	450,000	450,000	450,000	-	0.0%	-	-
General Fees and Recoveries	858,010	833,010	921,510	(25,000)	(2.9%)	63,500	7.4%
<b>Sub-Total Non-Rate Revenue</b>	<b>3,023,460</b>	<b>2,998,460</b>	<b>3,012,410</b>	<b>(25,000)</b>	<b>(.8%)</b>	<b>(11,050)</b>	<b>(.4%)</b>
<b>TOTAL REVENUES</b>	<b>210,863,288</b>	<b>207,907,664</b>	<b>222,259,479</b>	<b>(2,955,624)</b>	<b>(1.4%)</b>	<b>11,396,191</b>	<b>5.4%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>(0)</b>	<b>-</b>	<b>-</b>	<b>-</b>

**CITY OF HAMILTON Appendix "B" to Item 2 of GIC Report 18-020 Page 3 of 5**  
**2019 - 2022 WATER, WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WATER, WASTEWATER AND STORM**

	2018	2019	2020	2021	2022	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2019 REQUESTED / 2018 RESTATED BUDGET	%	2020 PROJECTED / 2019 REQUESTED BUDGET	%	2021 PROJECTED / 2020 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>											
<b>Environmental Services</b>											
Divisional Administration & Support	2,079,860	2,242,620	2,309,898	2,379,195	2,450,571	162,760	7.8%	67,279	3.0%	69,297	3.0%
Woodward Upgrades	1,220,310	1,524,540	1,570,276	1,617,384	1,665,906	304,230	24.9%	45,736	3.0%	47,108	3.0%
Customer Service	432,400	421,610	434,258	447,286	460,705	(10,790)	(2.5%)	12,648	3.0%	13,028	3.0%
Outreach & Education	1,325,620	1,350,860	1,391,386	1,433,127	1,476,121	25,240	1.9%	40,526	3.0%	41,742	3.0%
Service Co-ordination	3,110,320	4,401,610	4,533,658	4,669,668	4,809,758	1,291,290	41.5%	132,048	3.0%	136,010	3.0%
Engineering Systems & Data Collection	1,278,170	1,286,870	1,325,476	1,365,240	1,406,198	8,700	0.7%	38,606	3.0%	39,764	3.0%
Compliance & Regulations	798,230	871,210	897,346	924,267	951,995	72,980	9.1%	26,136	3.0%	26,920	3.0%
Laboratory Services	3,449,120	3,527,640	3,633,469	3,742,473	3,854,747	78,520	2.3%	105,829	3.0%	109,004	3.0%
Environmental Monitoring & Enforcement	1,755,150	1,818,020	1,872,561	1,928,737	1,986,600	62,870	3.6%	54,541	3.0%	56,177	3.0%
Water Distribution & Wastewater Collection	21,484,360	21,369,840	22,010,935	22,671,263	23,351,401	(114,520)	(0.5%)	641,095	3.0%	660,328	3.0%
Plant Operations & Maintenance	43,041,230	41,383,390	42,624,892	43,903,638	45,421,748	(1,657,840)	(3.9%)	1,241,502	3.0%	1,278,747	3.0%
Capital Delivery	1,865,830	1,859,660	1,915,450	1,972,913	2,032,101	(6,170)	(0.3%)	55,790	3.0%	57,463	3.0%
Sustainable Initiatives	1,470,340	1,497,370	1,542,291	1,588,560	1,636,217	27,030	0.0%	44,921	3.0%	46,269	3.0%
Infrastructure & Source Water Planning	2,459,220	2,464,770	2,538,713	2,614,874	2,693,321	5,550	0.2%	73,943	3.0%	76,161	3.0%
Wastewater Abatement Program	1,000,000	1,150,000	1,184,500	1,220,035	1,256,636	150,000	15.0%	34,500	3.0%	35,535	3.0%
Alectra Utilities Service Contract	5,559,720	5,700,000	5,871,000	6,047,130	6,228,544	140,280	2.5%	171,000	3.0%	176,130	3.0%
Corporate & Departmental Support Services	6,145,090	6,432,040	6,531,121	6,633,174	6,738,289	286,950	4.7%	99,081	1.5%	102,053	1.6%
Utilities Arrears Program	500,000	500,000	500,000	500,000	500,000	-	-	-	-	-	-
Gapping Target	-	(300,000)	(300,000)	(300,000)	(300,000)	(300,000)	-	-	-	-	-
Sewer Lateral Management Program	500,000	500,000	515,000	530,450	546,364	-	-	15,000	3.0%	15,450	3.0%
Hamilton Harbour Remedial Action Plan	305,000	395,000	406,850	419,056	431,627	90,000	29.5%	11,850	3.0%	12,206	3.0%
Protective Plumbing Program (3P)	2,000,000	1,250,000	1,287,500	1,326,125	1,365,909	(750,000)	(37.5%)	37,500	3.0%	38,625	3.0%
Financial Charges	188,210	177,000	182,310	187,779	193,413	(11,210)	(0)	5,310	3.0%	5,469	3.0%
Capital and Reserve Recoveries	(8,678,950)	(6,099,580)	(6,282,567)	(6,471,044)	(6,665,176)	2,579,370	(29.7%)	(182,987)	3.0%	(188,477)	3.0%
<b>Sub-Total Environmental Services</b>	<b>93,289,230</b>	<b>95,724,470</b>	<b>98,496,324</b>	<b>101,351,333</b>	<b>104,492,993</b>	<b>2,435,240</b>	<b>2.6%</b>	<b>2,771,854</b>	<b>2.9%</b>	<b>2,855,010</b>	<b>2.9%</b>
<b>Capital and Reserve Impacts on Operating</b>											
<b>Contributions to Capital</b>											
Water Quality Initiatives	36,982,000	51,762,000	30,761,000	42,634,000	44,001,000	14,780,000	40.0%	(21,001,000)	(40.6%)	11,873,000	38.6%
Wastewater	45,474,000	42,837,000	61,049,000	54,776,000	57,261,000	(2,637,000)	(5.8%)	18,212,000	42.5%	(6,273,000)	(10.3%)
Stormwater	8,516,000	3,205,000	10,865,000	7,525,000	7,355,000	(5,311,000)	(62.4%)	7,660,000	239.0%	(3,340,000)	(30.7%)
<b>Sub-Total Contributions to Capital</b>	<b>90,972,000</b>	<b>97,804,000</b>	<b>102,675,000</b>	<b>104,935,000</b>	<b>108,617,000</b>	<b>6,832,000</b>	<b>7.5%</b>	<b>4,871,000</b>	<b>5.0%</b>	<b>2,260,000</b>	<b>2.2%</b>
<b>Contributions for DC Exemptions</b>											
Water Quality Initiatives	2,547,000	2,547,000	2,240,000	2,240,000	2,240,000	-	0.0%	(307,000)	(12.1%)	-	0.0%
Wastewater	4,590,000	4,590,000	4,080,000	4,080,000	4,080,000	-	0.0%	(510,000)	(11.1%)	-	0.0%
Stormwater	1,863,000	1,863,000	1,680,000	1,680,000	1,680,000	-	0.0%	(183,000)	(9.8%)	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>8,000,000</b>	<b>8,000,000</b>	<b>8,000,000</b>	<b>-</b>	<b>0.0%</b>	<b>(1,000,000)</b>	<b>(11.1%)</b>	<b>-</b>	<b>0.0%</b>
<b>Debt Charges</b>											
Water Quality Initiatives	9,448,542	9,762,487	16,037,531	22,956,813	28,534,306	313,945	3.3%	6,275,044	64.3%	6,919,282	43.1%
Wastewater	8,737,296	10,120,380	13,646,238	18,471,030	24,415,779	1,383,084	15.8%	3,525,858	34.8%	4,824,792	35.4%
Stormwater	1,839,143	3,950,054	7,259,647	9,513,939	10,927,629	2,110,911	114.8%	3,309,592	83.8%	2,254,292	31.1%
DC Debt Charges Recoveries	(2,917,437)	(4,467,237)	(13,433,955)	(21,872,783)	(28,972,349)	(1,549,800)	53.1%	(8,966,718)	200.7%	(8,438,828)	62.8%
<b>Sub-Total Debt Charges</b>	<b>17,107,544</b>	<b>19,365,685</b>	<b>23,509,461</b>	<b>29,068,999</b>	<b>34,905,364</b>	<b>2,258,141</b>	<b>13.2%</b>	<b>4,143,777</b>	<b>21.4%</b>	<b>5,559,538</b>	<b>23.6%</b>
<b>Sub-Total Capital Financing</b>	<b>117,079,544</b>	<b>126,169,685</b>	<b>134,184,461</b>	<b>142,003,999</b>	<b>151,522,364</b>	<b>9,090,141</b>	<b>7.8%</b>	<b>8,014,777</b>	<b>6.4%</b>	<b>7,819,538</b>	<b>5.8%</b>
Reserve Transfers	494,513	365,324	166,276	151,352	255,975	(129,189)	(26.1%)	(199,049)	(54.5%)	(14,924)	(9.0%)
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>117,574,058</b>	<b>126,535,009</b>	<b>134,350,737</b>	<b>142,155,351</b>	<b>151,778,339</b>	<b>8,960,951</b>	<b>7.6%</b>	<b>7,815,728</b>	<b>6.2%</b>	<b>7,804,614</b>	<b>5.8%</b>
<b>TOTAL EXPENDITURES</b>	<b>210,863,288</b>	<b>222,259,479</b>	<b>232,847,061</b>	<b>243,506,685</b>	<b>256,271,332</b>	<b>11,396,191</b>	<b>5.4%</b>	<b>10,587,582</b>	<b>4.8%</b>	<b>10,659,624</b>	<b>4.6%</b>

**CITY OF HAMILTON Appendix "B" to Item 2 of GIC Report 18-020 Page 4 of 5**  
**2019 - 2022 WATER, WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WATER, WASTEWATER AND STORM**

	2018 RESTATED BUDGET	2019 REQUESTED BUDGET	2020 PROJECTED BUDGET	2021 PROJECTED BUDGET	2022 PROJECTED BUDGET	CHANGE 2019 REQUESTED / 2018 RESTATED BUDGET	CHANGE 2020 PROJECTED / 2019 REQUESTED BUDGET	CHANGE 2021 PROJECTED / 2020 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	92,860,600	97,938,766	103,206,630	108,616,861	114,372,031	5,078,166	5.5%	5,267,864	5.4%	5,410,231	5.2%
Industrial/Commercial/Institutional/Multi-res	102,918,990	107,752,759	112,678,981	117,500,794	123,673,707	4,833,769	4.7%	4,926,222	4.6%	4,821,812	4.3%
Haldimand	2,196,300	2,353,282	2,359,268	2,359,998	2,731,321	156,982	7.1%	5,986	0.3%	730	0.0%
Halton	237,458	247,782	259,960	270,220	285,271	10,324	4.3%	12,179	4.9%	10,260	3.9%
Raw Water	2,000	150,000	150,000	150,000	150,000	148,000	7400.0%	-	0.0%	-	0.0%
Non-Metered	550,000	580,000	580,000	610,000	640,000	30,000	5.5%	-	0.0%	30,000	5.2%
Private Fire Lines	1,350,000	1,550,000	1,596,500	1,644,395	1,693,727	200,000	14.8%	46,500	3.0%	47,895	3.0%
Hauler / 3rd Party Sales	1,475,000	1,225,000	1,261,750	1,299,603	1,338,591	(250,000)	(0)	36,750	3.0%	37,853	3.0%
Overstrength Agreements	2,249,480	2,249,480	2,316,964	2,386,473	2,458,068	-	0.0%	67,484	3.0%	69,509	3.0%
Sewer Surcharge Agreements	4,000,000	5,200,000	5,356,000	5,516,680	5,682,180	1,200,000	30.0%	156,000	3.0%	160,680	3.0%
<b>Sub-Total Utility Rates</b>	<b>207,839,828</b>	<b>219,247,069</b>	<b>229,766,054</b>	<b>240,355,023</b>	<b>253,024,896</b>	<b>11,407,241</b>	<b>5.5%</b>	<b>10,518,985</b>	<b>4.8%</b>	<b>10,588,969</b>	<b>4.6%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	275,850	275,850	275,850	275,850	275,850	-	-	-	-	-	-
Permits/Leases/Agreements	1,439,600	1,365,050	1,406,002	1,448,182	1,491,627	(74,550)	(5.2%)	40,952	3.0%	42,180	3.0%
Investment Income	450,000	450,000	450,000	450,000	450,000	-	-	-	-	-	-
General Fees and Recoveries	858,010	921,510	949,155	977,630	1,028,959	63,500	7.4%	27,645	3.0%	28,475	3.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>3,023,460</b>	<b>3,012,410</b>	<b>3,081,007</b>	<b>3,151,662</b>	<b>3,246,436</b>	<b>(11,050)</b>	<b>(0.4%)</b>	<b>68,597</b>	<b>2.3%</b>	<b>70,655</b>	<b>2.3%</b>
<b>TOTAL REVENUES</b>	<b>210,863,288</b>	<b>222,259,479</b>	<b>232,847,061</b>	<b>243,506,685</b>	<b>256,271,332</b>	<b>11,396,191</b>	<b>5.4%</b>	<b>10,587,582</b>	<b>4.8%</b>	<b>10,659,624</b>	<b>4.6%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

CITY OF HAMILTON  
2019-2028 WATER, WASTEWATER & STORM OPERATING BUDGET  
**COMBINED WATER, WASTEWATER AND STORM**  
(\$ 000'S)

	2018 Restated	2019 Requested	2020 Forecast	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast
<b>OPERATING EXPENDITURES</b>											
OPERATING COSTS	88,789	91,724	94,266	96,754	97,468	100,460	103,540	106,716	109,988	113,358	116,992
BIO-SOLIDS	4,500	4,000	4,230	4,129	4,215	4,302	4,392	4,484	4,578	4,676	4,676
TERTIARY TREATMENT	-	-	-	468	2,810	2,866	2,924	2,982	3,042	3,102	3,102
<b>TOTAL OPERATING COSTS</b>	<b>93,289</b>	<b>95,724</b>	<b>98,496</b>	<b>101,351</b>	<b>104,493</b>	<b>107,628</b>	<b>110,856</b>	<b>114,182</b>	<b>117,608</b>	<b>121,136</b>	<b>124,770</b>
<b>CAPITAL &amp; RESERVE IMPACTS ON OPERATING</b>											
<b>Contributions to Capital</b>											
Water	36,982	51,762	30,761	42,634	44,001	58,219	61,865	76,319	83,263	74,719	82,942
Wastewater	45,474	42,837	61,049	54,776	57,261	49,460	48,560	51,645	49,155	69,065	80,340
Stormwater	8,516	3,205	10,865	7,525	7,355	8,705	15,385	6,395	10,275	11,135	6,075
<b>Sub-total Contributions to Capital</b>	<b>90,972</b>	<b>97,804</b>	<b>102,675</b>	<b>104,935</b>	<b>108,617</b>	<b>116,384</b>	<b>125,810</b>	<b>134,359</b>	<b>142,693</b>	<b>154,919</b>	<b>169,357</b>
<b>Contributions for DC Exemptions</b>											
Water	2,547	2,547	2,240	2,240	2,240	2,240	2,240	2,240	2,240	2,240	2,240
Wastewater	4,590	4,590	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080
Stormwater	1,863	1,863	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680
<b>Sub-total Contributions to Capital</b>	<b>9,000</b>	<b>9,000</b>	<b>8,000</b>	<b>8,000</b>	<b>8,000</b>	<b>8,000</b>	<b>8,000</b>	<b>8,000</b>	<b>8,000</b>	<b>8,000</b>	<b>8,000</b>
<b>Debt Charges</b>											
Water	9,449	9,762	16,038	22,957	28,534	31,234	31,841	33,987	36,204	36,902	38,118
Wastewater	8,737	10,120	13,646	18,471	24,416	28,103	29,469	30,090	33,919	40,964	47,112
Stormwater	1,839	3,950	7,260	9,514	10,928	11,790	12,101	12,412	12,722	13,033	13,346
DC Debt Charges Recoveries	(2,917)	(4,467)	(13,434)	(21,873)	(28,972)	(33,719)	(35,820)	(38,162)	(44,165)	(53,913)	(64,073)
<b>Sub-total Debt Charges</b>	<b>17,108</b>	<b>19,366</b>	<b>23,509</b>	<b>29,069</b>	<b>34,905</b>	<b>37,408</b>	<b>37,592</b>	<b>38,326</b>	<b>38,681</b>	<b>36,986</b>	<b>34,503</b>
<b>Reserve Transfers</b>	<b>495</b>	<b>365</b>	<b>166</b>	<b>151</b>	<b>256</b>	<b>102</b>	<b>(44)</b>	<b>31</b>	<b>391</b>	<b>465</b>	<b>381</b>
<b>Sub-Total Capital &amp; Reserve Impacts on Operating</b>	<b>117,574</b>	<b>126,535</b>	<b>134,351</b>	<b>142,155</b>	<b>151,778</b>	<b>161,894</b>	<b>171,357</b>	<b>180,717</b>	<b>189,765</b>	<b>200,370</b>	<b>212,241</b>
<b>TOTAL EXPENDITURES</b>	<b>210,863</b>	<b>222,259</b>	<b>232,847</b>	<b>243,507</b>	<b>256,271</b>	<b>269,521</b>	<b>282,214</b>	<b>294,899</b>	<b>307,372</b>	<b>321,506</b>	<b>337,011</b>
<b>REVENUES</b>											
Residential	92,861	97,939	103,207	108,617	114,372	120,472	126,790	133,544	140,997	148,616	156,573
Industrial/Commercial/Institutional/Multi-res	102,919	107,753	112,679	117,501	123,674	130,150	135,865	141,183	145,623	151,437	158,226
Haldimand	2,196	2,353	2,359	2,360	2,731	2,923	3,091	3,202	3,270	3,437	3,643
Halton	237	248	260	270	285	304	321	334	344	360	382
Raw Water	2	150	150	150	150	150	150	150	150	150	150
Non-Metered	550	580	580	610	640	670	700	730	760	790	820
Private Fire Lines	1,350	1,550	1,597	1,644	1,694	1,745	1,797	1,851	1,906	1,963	2,022
Hauler / 3rd Party Sales	1,475	1,225	1,262	1,300	1,339	1,379	1,420	1,463	1,507	1,552	1,598
Overstrength Agreements	2,249	2,249	2,317	2,386	2,458	2,532	2,608	2,686	2,767	2,850	2,935
Sewer Surcharge Agreements	4,000	5,200	5,356	5,517	5,682	5,853	6,028	6,209	6,395	6,587	6,785
Non-Rate Revenue	3,023	3,012	3,081	3,152	3,246	3,344	3,444	3,547	3,654	3,763	3,876
<b>TOTAL REVENUES</b>	<b>210,863</b>	<b>222,259</b>	<b>232,847</b>	<b>243,507</b>	<b>256,271</b>	<b>269,521</b>	<b>282,214</b>	<b>294,899</b>	<b>307,372</b>	<b>321,506</b>	<b>337,011</b>
<b>NET EXPENDITURES</b>											
Rate Increase	4.50%	4.66%	4.50%	4.37%	4.48%	4.53%	4.39%	4.43%	4.60%	4.51%	4.51%
<b>RESIDENTIAL BILL (200m<sup>3</sup> p.a.)</b>	<b>\$ 690.70</b>	<b>\$ 722.90</b>	<b>\$ 755.45</b>	<b>\$ 788.45</b>	<b>\$ 823.75</b>	<b>\$ 861.05</b>	<b>\$ 898.85</b>	<b>\$ 938.70</b>	<b>\$ 981.90</b>	<b>\$ 1,026.20</b>	<b>\$ 1,072.45</b>



City of Hamilton  
Water System  
2019 Capital Budget Project List  
(000's)

City Ward	Project Number	Project Description	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
												From Operating	Debt
<b>Annual Projects</b>													
City Wide	4031914405	Contaminated Soil & Rock Disposal Program	240	-	-	-	-	-	-	-	240	240	-
City Wide	5141960711	PW Capital Water Consumption Program	200	-	-	-	-	-	-	-	200	200	-
<i>Sub-Total Annual Projects</i>			<b>440</b>	-	-	-	-	-	-	-	<b>440</b>	<b>440</b>	-
<b>Coordinated - Replacement Projects</b>													
13	5141970002	Baldwin / Court - West St. to Dundas St. - Road Restoration	180	-	-	-	-	-	-	-	180	180	-
4	5141970003	Brampton - Parkdale to Strathearne - Road Restoration	740	-	-	-	-	-	-	-	740	740	-
7	5141970004	Bruceale - Upper Wentworth to Upper Sherman (Eastmount Neighbourhood) - Road Restoration	780	-	-	-	-	-	-	-	780	780	-
3	5141970005	Cheever - Barton to Birge & Birge - Cheever to Wentworth - Road Restoration	240	-	-	-	-	-	-	-	240	240	-
1	5141970007	Haddon - Sterling to Marion - Road Restoration	310	-	-	-	-	-	-	-	310	310	-
10	5141970008	Hewitson – Dupont to Barton and Dupont - Road Restoration	230	-	-	-	-	-	-	-	230	230	-
1	5141970009	Locke - Herkimer to Main - Road Restoration	800	-	-	-	-	-	-	-	800	800	-
4	5141970010	Parkdale - Burlington to north end & Steel City Crt - Road Restoration	1,050	-	-	-	-	-	-	-	1,050	1,050	-
2	5141970012	Sheaffe / Park / Mulberry (Central Neighbourhood (North)) - Road Restoration	910	-	-	-	-	-	-	-	910	910	-
13	5141971302	Baldwin / Court - West St. to Dundas St.	110	-	-	-	-	-	-	-	110	110	-
4	5141971303	Brampton - Parkdale to Strathearne	600	-	-	-	-	-	-	-	600	600	-
7	5141971304	Bruceale - Upper Wentworth to Upper Sherman (Eastmount Neighbourhood)	1,710	-	-	-	-	-	-	-	1,710	1,710	-
3	5141971305	Cheever - Barton to Birge and Birge - Cheever to Wentworth	580	-	-	-	-	-	-	-	580	580	-
2	5141971306	Ferguson - Simcoe to Burlington	440	-	-	-	-	-	-	-	440	440	-
1	5141971307	Haddon - Sterling to Marion	510	-	-	-	-	-	-	-	510	510	-
10	5141971308	Hewitson – Dupont to Barton and Dupont	370	-	-	-	-	-	-	-	370	370	-
1	5141971309	Locke - Herkimer to Main	2,480	-	-	-	-	-	-	-	2,480	2,480	-
4	5141971310	Parkdale - Burlington to north end & Steel City Court	1,130	-	-	-	-	-	-	-	1,130	1,130	-
2	5141971312	Sheaffe / Park / Mulberry (Central Neighbourhood (North))	1,050	-	-	-	-	-	-	-	1,050	1,050	-
<i>Sub-Total Coordinated - Replacement Projects</i>			<b>14,220</b>	-	-	-	-	-	-	-	<b>14,220</b>	<b>14,220</b>	-
<b>Coordinated - Upgrade Projects</b>													
3	5141971313	Sherman - King to south end (LRT Enabling Project)	130	130	-	-	-	-	-	-	-	-	-
3	5141971314	Wentworth - Wilson to King (LRT Enabling Project)	130	130	-	-	-	-	-	-	-	-	-
4	5141971315	Main - Delena to Normanhurst & Normanhurst - Main to Queenston (LRT Enabling Project)	150	150	-	-	-	-	-	-	-	-	-
<i>Sub-Total Coordinated - Upgrade Projects</i>			<b>410</b>	<b>410</b>	-	-	-	-	-	-	-	-	-

City of Hamilton  
Water System  
2019 Capital Budget Project List  
(000's)

City Ward	Project Number	Project Description	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
												From Operating	Debt
<b>Coordinated Projects</b>													
City Wide	5141855777	Water infrastructure Analysis - Growth and Economic Opportunities	350	-	200	-	-	-	-	-	150	150	-
		<i>Sub-Total Coordinated Projects</i>	<b>350</b>	-	<b>200</b>	-	-	-	-	-	<b>150</b>	<b>150</b>	-
<b>Equipment Replacement</b>													
City Wide	5141966151	SCADA servers and network	2,500	-	-	-	-	-	-	2,500	-	-	-
		<i>Sub-Total Equipment Replacement</i>	<b>2,500</b>	-	-	-	-	-	-	<b>2,500</b>	-	-	-
<b>Haldimand-Norfolk Projects</b>													
11	5141564533	Upper Wentworth - South limit @ Hydro Corridor to Twenty	2,000	-	-	2,000	-	-	-	-	-	-	-
		<i>Sub-Total Haldimand-Norfolk Projects</i>	<b>2,000</b>	-	-	<b>2,000</b>	-	-	-	-	-	-	-
<b>Master Plan</b>													
City Wide	5141555264	City-Wide Water Master Plan	100	-	-	90	-	-	-	-	10	10	-
City Wide	5141955010	Water Systems Planning Program	400	-	-	-	-	-	-	-	400	400	-
		<i>Sub-Total Master Plan</i>	<b>500</b>	-	-	<b>90</b>	-	-	-	-	<b>410</b>	<b>410</b>	-
<b>Master Plan - Development</b>													
City Wide	5141996011	Intensification Infrastructure Upgrades Program - Water	400	-	-	200	-	-	-	-	200	200	-
		<i>Sub-Total Master Plan - Development</i>	<b>400</b>	-	-	<b>200</b>	-	-	-	-	<b>200</b>	<b>200</b>	-
<b>Master Plan - Horizontal Assets</b>													
13, 15	5141796752	PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	880	-	-	660	-	-	-	-	220	220	-
11	5141996951	Binbrook Feedermain via Fletcher (W-30)	580	-	-	580	-	-	-	-	-	-	-
		<i>Sub-Total Master Plan - Horizontal Assets</i>	<b>1,460</b>	-	-	<b>1,240</b>	-	-	-	-	<b>220</b>	<b>220</b>	-
<b>Master Plan - Vertical Assets</b>													
5	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	1,550	-	-	1,130	-	-	-	-	420	420	-
11	5141995951	PS HD019 (Binbrook) Capacity Upgrade (W-20)	220	-	-	220	-	-	-	-	-	-	-
City Wide	5142595552	P.S. HD07A - New District 7 (Elfrida area) Pumping Station (W-21)	280	-	-	280	-	-	-	-	-	-	-
		<i>Sub-Total Master Plan - Vertical Assets</i>	<b>2,050</b>	-	-	<b>1,630</b>	-	-	-	-	<b>420</b>	<b>420</b>	-
<b>Outstations-Sustainable Asset Mgt (SAM)</b>													
4	5141267274	Kenilworth Pumping Station (HD005) - Phase 2	330	-	-	-	-	-	-	-	330	330	-

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City Ward	Project Number	Project Description	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
												From Operating	Debt
2	5141395353	Ferguson Avenue HD002 Pumping Station	330	-	-	-	-	-	-	-	330	330	-
14	5141666608	Lynden Additional Water Supply	3,520	-	-	-	-	-	-	2,700	820	820	-
10	5141667420	Ben Nevis & Dewitt (HD08A) Water Pumping Station Upgrades	550	-	-	-	-	-	-	-	550	550	-
13	5141667422	Osler Road Pumping Station (HD011) Upgrades	280	-	-	-	-	-	-	-	280	280	-
14	5141767650	New Greensville Communal Well	750	-	-	-	-	-	-	-	750	750	-
4, 10	5141967375	HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades	7,550	-	-	-	-	-	500	500	6,550	2,209	4,341
City Wide	5141967752	Water Outstation Inspections - Asset Management	660	-	-	-	-	-	-	-	660	660	-
		<i>Sub-Total Outstations-Sustainable Asset Mgt (SAM)</i>	<b>13,970</b>	-	-	-	-	-	<b>500</b>	<b>3,200</b>	<b>10,270</b>	<b>5,929</b>	<b>4,341</b>
<b>Plans/Studies</b>													
City Wide	5141955247	Alterations to the Drinking Water System	150	-	-	-	-	-	-	-	150	150	-
City Wide	5141955713	Pressure Districts and Drinking Water System Optimization	220	-	-	-	-	-	-	-	220	220	-
		<i>Sub-Total Plans/Studies</i>	<b>370</b>	-	-	-	-	-	-	-	<b>370</b>	<b>370</b>	-
<b>Plant - Sustainable Asset Mgt (SAM)</b>													
4	5141166110	Water Treatment Plant - Process Upgrades (CASH FLOWED)	11,350	-	-	-	-	-	-	-	11,350	1,350	10,000
City Wide	5141966420	Woodward WTP Chlorine Chemical Building	800	-	-	-	-	-	-	-	800	800	-
City Wide	5141966711	Water Treatment Studies Program	250	-	-	-	-	-	-	-	250	250	-
City Wide	5141966713	Water Maintenance Capital Program	2,000	-	-	-	-	-	-	-	2,000	2,000	-
		<i>Sub-Total Plant - Sustainable Asset Mgt (SAM)</i>	<b>14,400</b>	-	-	-	-	-	-	-	<b>14,400</b>	<b>4,400</b>	<b>10,000</b>
<b>Plant - Water Quality Initiatives (WQI)</b>													
City Wide	5141969075	City Environmental Lab Improvements Program	200	-	-	-	-	-	-	-	200	200	-
		<i>Sub-Total Plant - Water Quality Initiatives (WQI)</i>	<b>200</b>	-	-	-	-	-	-	-	<b>200</b>	<b>200</b>	-
<b>Rehabilitation Project</b>													
City Wide	5141761777	Beach Trunkmain Rehab	2,300	-	-	-	-	-	-	-	2,300	2,300	-
City Wide	5141960750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	3,000	-	-	-	-	-	-	-	3,000	3,000	-
City Wide	5141961502	Water Meter - Installation/Replacement/Repair - General Maintenance	2,860	-	-	-	640	-	-	-	2,220	2,220	-
		<i>Sub-Total Rehabilitation Project</i>	<b>8,160</b>	-	-	-	<b>640</b>	-	-	-	<b>7,520</b>	<b>7,520</b>	-
<b>Replacement Project</b>													
City Wide	5141960080	Valve Replacement Program	1,580	-	-	-	-	-	90	-	1,490	1,490	-
10	5141961341	Pineland/Teal/Community/Garden/South Service	110	-	-	-	-	-	-	-	110	110	-
City Wide	5141971074	Contingency for Unscheduled Works Program	100	-	-	-	-	-	55	-	45	45	-
		<i>Sub-Total Replacement Project</i>	<b>1,790</b>	-	-	-	-	-	<b>145</b>	-	<b>1,645</b>	<b>1,645</b>	-

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City Ward	Project Number	Project Description	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources		
												From Operating	Debt	
<b>Restorations</b>														
City Wide	5141911101	Road Restoration Program	5,400	-	-	-	-	-	-	-	-	5,400	5,400	-
		<i>Sub-Total Restorations</i>	<b>5,400</b>	-	-	-	-	-	-	-	-	<b>5,400</b>	<b>5,400</b>	-
<b>Technical Services Projects</b>														
City Wide	4031957944	18-055 PW Asset Management (PW-AM) System Evaluation	750	-	-	-	-	-	-	-	-	750	750	-
City Wide	5141455425	Prestressed Concrete Cylinder Pipe Condition Assessment Inspection Program	520	-	-	-	-	-	-	-	-	520	520	-
City Wide	5141949555	QA-QC Service Contract Program	160	-	-	-	-	-	-	-	-	160	160	-
City Wide	5141955556	Mapping Update Program	40	-	-	-	-	-	-	-	-	40	40	-
City Wide	5141957545	Water - Computer Model	280	-	-	-	-	-	-	-	-	280	280	-
City Wide	5141960577	Metallic Watermain Condition Assessment Program	580	-	-	-	-	-	-	-	-	580	580	-
5	5141980955	Centennial Secondary Plan - Servicing Study	100	-	-	90	-	-	-	-	-	10	10	-
		<i>Sub-Total Technical Services Projects</i>	<b>2,430</b>	-	-	<b>90</b>	-	-	-	-	-	<b>2,340</b>	<b>2,340</b>	-
<b>Upgrade Projects</b>														
14, 15	5141667423	Freelton Well (FDF01) Capacity Increase	440	-	-	407	-	-	-	-	-	33	33	-
City Wide	5141961910	Residential Water Meter and Meter Pit Installation for Non Metered Properties	180	-	-	-	-	-	-	-	-	180	180	-
City Wide	5141962073	Field Data Systems Program	110	-	-	-	-	-	-	-	-	110	110	-
City Wide	5141962078	Substandard Water Service Replacement Program	2,750	-	-	-	-	-	-	-	-	2,750	2,750	-
		<i>Sub-Total Upgrade Projects</i>	<b>3,480</b>	-	-	<b>407</b>	-	-	-	-	-	<b>3,073</b>	<b>3,073</b>	-
<b>Vehicles-New</b>														
City Wide	4031921960	Fleet Additions - Engineering Services - Construction	50	-	-	-	-	-	-	-	-	50	50	-
City Wide	5141851810	Fleet Additions	650	-	-	-	-	-	-	-	-	650	650	-
		<i>Sub-Total Vehicles-New</i>	<b>700</b>	-	-	-	-	-	-	-	-	<b>700</b>	<b>700</b>	-
<b>Water Quality Initiatives (WQI)</b>														
City Wide	5141966911	Woodward WTP - Biological Filtration Pilot Study	150	-	-	-	-	-	-	-	-	150	150	-
		<i>Sub-Total Water Quality Initiatives (WQI)</i>	<b>150</b>	-	-	-	-	-	-	-	-	<b>150</b>	<b>150</b>	-

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City Ward	Project Number	Project Description	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources		
												From Operating	Debt	
<b>Watermain Lining</b>														
City Wide	5141960072	Watermain Structural Lining	6,900	-	-	-	-	-	2,925	-	3,975	3,975	-	
<i>Sub-Total Watermain Lining</i>			<b>6,900</b>	-	-	-	-	-	<b>2,925</b>	-	<b>3,975</b>	<b>3,975</b>	-	
<b>Total All Projects</b>			<b>82,280</b>	<b>410</b>	<b>200</b>	<b>5,657</b>	<b>640</b>	-	<b>3,570</b>	<b>5,700</b>	<b>66,103</b>	<b>51,762</b>	<b>14,341</b>	

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City Ward	Project Number	Project Description	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
												From Operating	Debt
<b>Annual Projects</b>													
City Wide	4031914405	Contaminated Soil & Rock Disposal Program	240	-	-	-	-	-	-	-	240	240	-
City Wide	5161960711	PW Capital Water Consumption Program	200	-	-	-	-	-	-	-	200	200	-
		<i>Sub-Total Annual Projects</i>	<b>440</b>	-	-	-	-	-	-	-	<b>440</b>	<b>440</b>	-
<b>Computer Software Purchases</b>													
City Wide	5161957545	Wastewater Computer Model Update & Maintenance	380	-	-	-	-	-	-	-	380	380	-
		<i>Sub-Total Computer Software Purchases</i>	<b>380</b>	-	-	-	-	-	-	-	<b>380</b>	<b>380</b>	-
<b>Coordinated - Replacement Projects</b>													
3	5161971905	Cheever - Barton to Birge and Birge - Cheever to Wentworth	90	-	-	-	-	-	-	-	90	90	-
2	5161971945	Sheaffe / Park / Mulberry (Central Neighbourhood (North))	2,350	-	-	-	-	-	-	-	2,350	2,350	-
		<i>Sub-Total Coordinated - Replacement Projects</i>	<b>2,440</b>	-	-	-	-	-	-	-	<b>2,440</b>	<b>2,440</b>	-
<b>Coordinated Projects</b>													
City Wide	5161855777	LRT Corridor - Wastewater Infrastructure Assessment and Approvals	350	-	200	-	-	-	-	-	150	150	-
		<i>Sub-Total Coordinated Projects</i>	<b>350</b>	-	<b>200</b>	-	-	-	-	-	<b>150</b>	<b>150</b>	-
<b>Development Projects</b>													
2	4411506103	Pier 8 Sanitary PS & Forcemain	9,000	-	-	8,100	-	-	-	-	900	900	-
		<i>Sub-Total Development Projects</i>	<b>9,000</b>	-	-	<b>8,100</b>	-	-	-	-	<b>900</b>	<b>900</b>	-
<b>Equipment Replacement</b>													
City Wide	5161966151	SCADA servers and network	1,500	-	-	-	-	-	-	1,500	-	-	-
		<i>Sub-Total Equipment Replacement</i>	<b>1,500</b>	-	-	-	-	-	-	<b>1,500</b>	-	-	-
<b>Maintenance Projects</b>													
5, 6	5161968920	Fennell/Greenhill Drop Shaft	180	-	-	-	-	-	-	-	180	180	-
		<i>Sub-Total Maintenance Projects</i>	<b>180</b>	-	-	-	-	-	-	-	<b>180</b>	<b>180</b>	-
<b>Master Plan</b>													
City Wide	5161555264	City-Wide Wastewater Master Plan	100	-	-	90	-	-	-	-	10	10	-
City Wide	5161955010	Wastewater Systems Planning Program	600	-	-	-	-	-	-	-	600	600	-
		<i>Sub-Total Master Plan</i>	<b>700</b>	-	-	<b>90</b>	-	-	-	-	<b>610</b>	<b>610</b>	-

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												From Operating	Debt
<b>Master Plan - Development</b>													
City Wide	5161996011	Intensification Infrastructure Upgrades Program - Wastewater	400	-	-	200	-	-	-	-	200	200	-
<i>Sub-Total Master Plan - Development</i>			<b>400</b>	-	-	<b>200</b>	-	-	-	-	<b>200</b>	<b>200</b>	-
<b>Master Plan - Horizontal Assets</b>													
1	5161596855	Royal to Main/King Sanitary Sewer Upgrades (WW-22) (CASH FLOWED)	6,840	-	-	6,840	-	-	-	-	-	-	-
5, 9	5161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	10,500	-	-	10,500	-	-	-	-	-	-	-
11	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	1,650	-	-	1,650	-	-	-	-	-	-	-
1	5161996954	Aberdeen at Hillside Neighbourhood Sewer Separation	450	-	-	-	-	-	-	-	450	450	-
<i>Sub-Total Master Plan - Horizontal Assets</i>			<b>19,440</b>	-	-	<b>18,990</b>	-	-	-	-	<b>450</b>	<b>450</b>	-
<b>Master Plan - Vertical Assets</b>													
15	5161796786	First Street (Waterdown Sanitary) PS Upgrade DC014	1,480	-	-	903	-	-	-	-	577	577	-
<i>Sub-Total Master Plan - Vertical Assets</i>			<b>1,480</b>	-	-	<b>903</b>	-	-	-	-	<b>577</b>	<b>577</b>	-
<b>Outstations-Sustainable Asset Mgt (SAM)</b>													
12	5161267270	Ancaster Wastewater Outstations Upgrades	2,010	-	-	-	-	-	-	-	2,010	2,010	-
5	5161467756	Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	930	-	-	-	-	-	-	-	930	930	-
12, 13, 15	5161667622	FC001, DC009 & HC011 Wastewater Pumping Stations Upgrades	3,200	-	-	-	-	-	-	-	3,200	3,200	-
1	5161767772	Decommissioning Aberdeen Sewage Pumping Station	60	-	-	-	-	-	-	-	60	60	-
City Wide	5161967752	Wastewater Outstation Inspections - Asset Management Program	520	-	-	-	-	-	-	-	520	520	-
<i>Sub-Total Outstations-Sustainable Asset Mgt (SAM)</i>			<b>6,720</b>	-	-	-	-	-	-	-	<b>6,720</b>	<b>6,720</b>	-
<b>Outstations-Wastewater Investment Needs (WINS)</b>													
City Wide	5161667421	New Haulage Receiving Station	550	-	-	-	-	-	-	-	550	550	-
<i>Sub-Total Outstations-Wastewater Investment Needs (WINS)</i>			<b>550</b>	-	-	-	-	-	-	-	<b>550</b>	<b>550</b>	-
<b>Plant - Sustainable Asset Mgt (SAM)</b>													
City Wide	5161066065	Waste Hauler Receiving Station - Eastport Drive SPS (HC017) Upgrades	650	-	-	-	-	-	-	-	650	650	-
City Wide	5161966511	Woodward WWTP - Digester #5	500	-	-	-	-	-	-	-	500	500	-
City Wide	5161966612	Woodward WWTP - South Secondary Clarifiers	4,500	-	-	-	4,000	-	-	-	500	500	-
City Wide	5161966713	Wastewater Maintenance Capital Program	4,000	-	-	-	-	-	-	2,400	1,600	1,600	-
City Wide	5162266102	Woodward WWTP - Expansion (CASH FLOWED)	1,500	-	-	1,500	-	-	-	-	-	-	-
<i>Sub-Total Plant - Sustainable Asset Mgt (SAM)</i>			<b>11,150</b>	-	-	<b>1,500</b>	<b>4,000</b>	-	-	<b>2,400</b>	<b>3,250</b>	<b>3,250</b>	-

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												From Operating	Debt
<b>Plant - Wastewater Investment Needs (WINS)</b>													
City Wide	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	64,531	42,708	-	3,499	18,324	-	-	-	-	-	-
City Wide	5160966910	Woodward WWTP - Biosolids Management Facility	250	-	-	60	-	-	-	-	190	190	-
City Wide	5161969075	City Environmental Lab Improvements Program	200	-	-	-	-	-	-	-	200	200	-
<i>Sub-Total Plant - Wastewater Investment Needs (WINS)</i>			<b>64,981</b>	<b>42,708</b>	-	<b>3,559</b>	<b>18,324</b>	-	-	-	<b>390</b>	<b>390</b>	-
<b>Rehabilitation Project</b>													
City Wide	5161960302	Emergency Repairs - Cross Connections Program	750	-	-	-	-	-	-	-	750	750	-
City Wide	5161960390	Wastewater System Lining Program	4,660	-	-	-	-	-	4,110	-	550	550	-
City Wide	5161960522	Sewer Lateral Management Program (WWC)	4,500	-	-	-	-	-	-	-	4,500	4,500	-
City Wide	5161960533	Trenchless Manhole Rehabilitation	80	-	-	-	-	-	-	-	80	80	-
City Wide	5161960574	Pre-Construction Mainline Condition Assessment	580	-	-	-	-	-	-	-	580	580	-
City Wide	5161960575	Mainline Sewer Condition Assessment Program	790	-	-	-	-	-	-	-	790	790	-
City Wide	5161960576	Sewer Lateral Condition Assessment Program	620	-	-	-	-	-	-	-	620	620	-
City Wide	5161960577	Mainline Sewer Condition Assessment for Compliance & Regulations	120	-	-	-	-	-	-	-	120	120	-
12	5161960942	Ancaster Sewage Works Pipeline CIPP Rehab - CASH FLOW	6,560	-	-	-	-	-	-	-	6,560	6,560	-
<i>Sub-Total Rehabilitation Project</i>			<b>18,660</b>	-	-	-	-	-	<b>4,110</b>	-	<b>14,550</b>	<b>14,550</b>	-
<b>Repairs</b>													
City Wide	5161960820	Open Cut Repairs for CIPP Program	580	-	-	-	-	-	-	-	580	580	-
<i>Sub-Total Repairs</i>			<b>580</b>	-	-	-	-	-	-	-	<b>580</b>	<b>580</b>	-
<b>Replacement Project</b>													
City Wide	5161961444	Sewer Lateral Replace/Rehab Program	3,570	-	-	-	-	-	-	-	3,570	3,570	-
City Wide	5161961740	Unscheduled Manhole and Sewermain Replacement Program	400	-	-	-	-	-	-	-	400	400	-
City Wide	5161971015	Sewer Lateral Replacement for Co-ordinated Projects	430	-	-	-	-	-	-	-	430	430	-
City Wide	5161971074	Contingency for Unscheduled Works Program	100	-	-	-	-	-	-	-	100	100	-
<i>Sub-Total Replacement Project</i>			<b>4,500</b>	-	-	-	-	-	-	-	<b>4,500</b>	<b>4,500</b>	-
<b>Restorations</b>													
City Wide	5161911101	Road Restoration Program	1,800	-	-	-	-	-	-	-	1,800	1,800	-
<i>Sub-Total Restorations</i>			<b>1,800</b>	-	-	-	-	-	-	-	<b>1,800</b>	<b>1,800</b>	-



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												From Operating	Debt	
<b>Technical Services Projects</b>														
	12	5161768240	Western Interceptor Sewer CCTV and Sonar Inspection	920	-	-	-	-	-	-	-	920	920	-
City Wide		5161949555	QA-QC Service Contract Program	160	-	-	-	-	-	-	-	160	160	-
City Wide		5161955556	Mapping Update Program	40	-	-	-	-	-	-	-	40	40	-
City Wide		5161955640	Flow Monitoring Program	350	-	-	170	-	-	-	-	180	180	-
City Wide		5161955878	Forcemain Condition Assessment Program	310	-	-	-	-	-	-	-	310	310	-
City Wide		5161955955	Inflow & Infiltration Studies and Control Program	500	-	-	150	-	-	-	-	350	350	-
	5	5161980955	Centennial Secondary Plan - Servicing Study	100	-	-	90	-	-	-	-	10	10	-
		<i>Sub-Total Technical Services Projects</i>		<b>2,380</b>	-	-	<b>410</b>	-	-	-	-	<b>1,970</b>	<b>1,970</b>	-
<b>Upgrade Projects</b>														
	5, 10	5161655350	Riverdale Flood Relief Remedial Measures EA	1,320	-	-	-	-	-	-	-	1,320	1,320	-
	12	5161661434	Upsize Forcemain under Wilson Street (Intersection of Wilson Street & Rousseau Street)	170	-	-	-	-	-	-	-	170	170	-
City Wide		5161962073	Field Data Systems Program	110	-	-	-	-	-	-	-	110	110	-
		<i>Sub-Total Upgrade Projects</i>		<b>1,600</b>	-	-	-	-	-	-	-	<b>1,600</b>	<b>1,600</b>	-
<b>Vehicles-New</b>														
City Wide		4031921960	Fleet Additions - Engineering Services - Construction	50	-	-	-	-	-	-	-	50	50	-
		<i>Sub-Total Vehicles-New</i>		<b>50</b>	-	-	-	-	-	-	-	<b>50</b>	<b>50</b>	-
<b>Water Quality Initiatives (WQI)</b>														
City Wide		5161468422	Randle Reef Sediment Remediation (CASH FLOWED)	550	-	-	-	-	-	-	-	550	550	-
		<i>Sub-Total Water Quality Initiatives (WQI)</i>		<b>550</b>	-	-	-	-	-	-	-	<b>550</b>	<b>550</b>	-
<b>Total All Projects</b>				<b>149,831</b>	<b>42,708</b>	<b>200</b>	<b>33,752</b>	<b>22,324</b>	-	<b>4,110</b>	<b>3,900</b>	<b>42,837</b>	<b>42,837</b>	-

**CITY OF HAMILTON**  
**WASTEWATER SYSTEM**  
**2019 - 2028 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2019		2019		2020		2021		2022-2028		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Rehabilitation, Replacement, &amp; Upgrade Programs (SAM)</b>																
City Wide	4031914405	Contaminated Soil & Rock Disposal Program	0	0	240	240	0	0	240	240	480	480	960	920	2019	Ongoing
City Wide	4031921960	Fleet Additions - Engineering Services - Construction	0	0	50	50	0	0	0	0	0	0	50	50	2019	2019
City Wide	4031955522	State of the Infrastructure - Asset Management	0	0	0	0	100	100	100	100	700	700	900	900	2019	Ongoing
4	5161641226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	1,250	2,250	0	0	0	0	0	0	7,500	7,500	8,750	9,750	2016	2024
5, 10	5161655350	Riverdale Flood Relief Remedial Measures EA	220	0	1,320	1,320	0	0	0	0	0	0	1,540	1,320	2016	2020
6, 7	5161655351	Lawfield / Berrisfield Neighbourhoods	185	110	0	0	170	170	0	0	0	0	355	280	2016	2020
12	5161661434	Upsize Forcemain under Wilson Street (Intersection of Wilson Street & Rousseaux Street)	100	50	170	170	0	0	0	0	0	0	270	220	2016	2019
12	5161768240	Western Interceptor Sewer CCTV and Sonar Inspection	1,540	0	920	920	0	0	0	0	0	0	2,460	920	2017	2019
City Wide	5161911101	Road Restoration Program	0	0	1,800	1,800	1,800	1,800	1,800	1,800	12,600	12,600	18,000	18,000	2019	Ongoing
City Wide	5161949555	QA-QC Service Contract Program	0	0	160	160	150	150	150	150	1,050	1,050	1,510	1,510	2019	Ongoing
City Wide	5161955556	Mapping Update Program	0	0	40	40	0	0	40	40	120	120	200	200	2019	Ongoing
City Wide	5161955640	Flow Monitoring Program	0	0	350	180	170	70	160	110	830	430	1,510	790	2019	Ongoing
City Wide	5161955878	Forcemain Condition Assessment Program	0	0	310	310	300	300	300	300	2,100	2,100	3,010	3,010	2019	Ongoing
City Wide	5161955955	Inflow & Infiltration Studies and Control Program	0	0	500	350	0	0	300	150	900	450	1,700	950	2019	Ongoing
City Wide	5161957545	Wastewater Computer Model Update & Maintenance	0	0	380	380	280	280	280	280	1,960	1,960	2,900	2,900	2019	Ongoing
City Wide	5161960302	Emergency Repairs - Cross Connections Program	0	0	750	750	700	700	500	500	900	900	2,850	2,850	2019	Ongoing
City Wide	5161960390	Wastewater System Lining Program	0	0	4,660	550	4,500	4,500	4,500	4,500	31,500	31,500	45,160	41,050	2019	Ongoing
City Wide	5161960522	Sewer Lateral Management Program (WWC)	0	0	4,500	4,500	4,000	4,000	4,000	4,000	24,500	24,500	37,000	37,000	2019	Ongoing
City Wide	5161960533	Trenchless Manhole Rehabilitation	0	0	80	80	80	80	80	80	560	560	800	800	2019	Ongoing
City Wide	5161960574	Pre-Construction Mainline Condition Assessment	0	0	580	580	550	550	550	550	3,850	3,850	5,530	5,530	2019	Ongoing

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2019 - 2028 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2019		2019		2020		2021		2022-2028		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Rehabilitation, Replacement, &amp; Upgrade Programs (SAM)</b>																
City Wide	5161960575	Mainline Sewer Condition Assessment Program	0	0	790	790	1,260	1,260	1,260	1,260	8,820	8,820	12,130	12,130	2019	Ongoing
City Wide	5161960576	Sewer Lateral Condition Assessment Program	0	0	620	620	600	600	600	600	4,200	4,200	6,020	6,020	2019	Ongoing
City Wide	5161960577	Mainline Sewer Condition Assessment for Compliance & Regulations	0	0	120	120	110	110	110	110	770	770	1,110	1,110	2019	Ongoing
City Wide	5161960711	PW Capital Water Consumption Program	0	0	200	200	200	200	200	200	1,130	1,130	1,730	1,730	2019	Ongoing
City Wide	5161960820	Open Cut Repairs for CIPP Program	0	0	580	580	550	550	550	550	3,850	3,850	5,530	5,530	2019	Ongoing
12	5161960942	Ancaster Sewage Works Pipeline CIPP Rehab - CASH FLOW	0	0	6,560	6,560	450	450	0	0	0	0	7,010	7,010	2019	2020
City Wide	5161961444	Sewer Lateral Replace/Rehab Program	0	0	3,570	3,570	4,000	4,000	4,000	4,000	28,000	28,000	39,570	39,570	2019	Ongoing
City Wide	5161961740	Unscheduled Manhole and Sewermain Replacement Program	0	0	400	400	400	400	350	350	2,450	2,450	3,600	3,600	2019	Ongoing
City Wide	5161962073	Field Data Systems Program	0	0	110	110	0	0	110	110	330	330	550	550	2019	Ongoing
City Wide	5161971015	Sewer Lateral Replacement for Co-ordinated Projects	0	0	430	430	300	300	300	300	2,700	2,700	3,730	3,730	2019	Ongoing
City Wide	5161971074	Contingency for Unscheduled Works Program	0	0	100	100	0	0	200	200	600	600	900	900	2019	Ongoing
City Wide	5161971940	Unspecified Works	0	0	0	0	0	0	0	0	86,100	86,100	86,100	86,100	2020	2024
5	5161980955	Centennial Secondary Plan - Servicing Study	0	0	100	10	0	0	0	0	0	0	100	10	2019	2019
City Wide	5162166810	Woodward WWTP - Maintenance Building (CASH FLOWED)	500	500	0	0	100	100	450	450	450	450	1,500	1,500	2021	2022
4	51622261240	Strathearne Ave South Trunk Sewer Rehabilitation	0	0	0	0	0	0	0	0	2,300	2,300	2,300	2,300	2022	2022
5, 9	51622261251	Satellite City Trunk Sewer Rehabilitation - CASH FLOW	0	0	0	0	0	0	4,440	4,440	4,440	4,440	8,880	8,880	2021	2022
4	5162361340	Strathearne Ave North Trunk Sewer Rehabilitation	0	0	0	0	0	0	0	0	3,300	3,300	3,300	3,300	2023	2023
15	5162418420	Grindstone Creek Utility Bridge	0	0	0	0	0	0	0	0	3,900	3,900	3,900	3,900	2024	2024
2	5162461422	Patrick - Walnut to west end	0	0	0	0	0	0	0	0	460	460	460	460	2024	2024
			<b>3,795</b>	<b>2,910</b>	<b>30,390</b>	<b>25,870</b>	<b>20,770</b>	<b>20,670</b>	<b>25,570</b>	<b>25,370</b>	<b>243,350</b>	<b>242,500</b>	<b>323,875</b>	<b>317,320</b>		

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2019 - 2028 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2019		2019		2020		2021		2022-2028		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Projects Coordinated with Roads Program</b>																
3	5161971905	Cheever - Barton to Birge and Birge - Cheever to Wentworth	0	0	90	90	0	0	0	0	0	0	90	90	2019	2019
2	5161971945	Sheaffe / Park / Mulberry (Central Neighbourhood (North))	0	0	2,350	2,350	0	0	0	0	0	0	2,350	2,350	2019	2019
1	5162271726	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	0	0	0	0	0	0	0	0	450	450	450	450	2022	2022
3	5162761725	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	0	0	0	0	0	0	0	0	90	90	90	90	2027	2027
3, 4	5162771220	Burlington & Industrial - Ottawa to Kenilworth	0	0	0	0	0	0	0	0	820	820	820	820	2027	2027
			<b>0</b>	<b>0</b>	<b>2,440</b>	<b>2,440</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,360</b>	<b>1,360</b>	<b>3,800</b>	<b>3,800</b>		
<b>Plant/Outstations Projects (SAM)</b>																
City Wide	5161066065	Waste Hauler Receiving Station - Eastport Drive SPS (HC017) Upgrades	2,540	202	650	650	0	0	0	0	0	0	3,190	852	2010	2019
13	5161266213	Dundas WWTP Improvements (CASH FLOWED)	1,670	(1,400)	0	0	1,650	1,650	1,650	1,650	24,150	24,150	29,120	26,050	2012	2021
12	5161267270	Ancaster Wastewater Outstations Upgrades	6,310	0	2,010	2,010	0	0	0	0	0	0	8,320	2,010	2012	2019
13	5161267273	Dundas Wastewater Outstations Upgrades	2,730	280	0	0	2,300	2,300	0	0	0	0	5,030	2,580	2012	2019
5	5161467756	Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	1,990	930	930	930	0	0	0	0	0	0	2,920	4,638	2014	2018
12, 13, 15	5161667622	FC001, DC009 & HC011 Wastewater Pumping Stations Upgrades	1,990	1,438	3,200	3,200	0	0	0	0	0	0	5,190	1,438	2016	2019
4	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades	660	110	0	0	2,750	2,750	0	0	0	0	3,410	2,860	2017	2019
1	5161767772	Decommissioning Aberdeen Sewage Pumping Station	0	0	60	60	110	110	1,190	1,190	0	0	1,360	1,360	2019	2021
City Wide	5161866420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	0	0	0	0	0	0	0	0	27,940	27,940	27,940	27,940	2018	2023
City Wide	5161966511	Woodward WWTP - Digester #5	0	0	500	500	3,000	3,000	0	0	0	0	3,500	3,500	2018	2019
City Wide	5161966612	Woodward WWTP - South Secondary Clarifiers	0	0	4,500	500	0	0	0	0	0	0	4,500	500	2019	2019

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Ward (s)	Project Number	Project Description	Pre 2019		2019		2020		2021		2022-2028		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Plant/Outstations Projects (SAM)</b>																
City Wide	5161966713	Wastewater Maintenance Capital Program	0	0	4,000	1,600	2,000	2,000	2,000	2,000	26,000	26,000	34,000	31,600	2019	Ongoing
City Wide	5161967751	Wastewater Outstation Upgrades - Asset Management Program	0	0	0	0	0	0	0	0	28,000	28,000	28,000	28,000	2022	Ongoing
City Wide	5161967752	Wastewater Outstation Inspections - Asset Management Program	0	0	520	520	520	520	520	520	3,340	3,340	4,900	4,900	2019	Ongoing
City Wide	5162066311	Woodward WWTP - Digester #3	0	0	0	0	500	500	3,000	3,000	0	0	3,500	3,500	2020	2021
City Wide	5162067420	Main & King CSO Rehabilitation	0	0	0	0	910	910	0	0	0	0	910	910	2020	2020
City Wide	5162266011	Woodward WWTP - Secondary Digester	0	0	0	0	0	0	0	0	4,500	4,500	4,500	4,500	2022	2023
City Wide	5162266102	Woodward WWTP - Expansion (CASH FLOWED)	0	0	1,500	0	1,750	0	1,750	0	291,374	0	296,374	0	2019	2028
			<b>17,890</b>	<b>1,560</b>	<b>17,870</b>	<b>9,970</b>	<b>15,490</b>	<b>13,740</b>	<b>10,110</b>	<b>8,360</b>	<b>405,304</b>	<b>113,930</b>	<b>466,664</b>	<b>147,560</b>		
<b>Plant/Outstations Projects (WQI)</b>																
City Wide	5161468422	Randle Reef Sediment Remediation (CASH FLOWED)	4,550	1,550	550	550	550	550	500	500	0	0	6,150	3,150	2014	2021
			<b>4,550</b>	<b>1,550</b>	<b>550</b>	<b>550</b>	<b>550</b>	<b>550</b>	<b>500</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>6,150</b>	<b>3,150</b>		
<b>Plant/Outstations Projects (WINS)</b>																
City Wide	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	152,212	3,266	64,531	0	89,194	18,484	97,160	42,046	3,378	2,981	406,475	66,777	2008	2021
City Wide	5160966910	Woodward WWTP - Biosolids Management Facility	10,220	630	250	190	28,030	0	2,770	2,240	19,390	15,680	60,660	18,740	2009	2051
City Wide	5161969075	City Environmental Lab Improvements Program	0	0	200	200	100	100	400	400	405	405	1,105	905	2019	Ongoing
			<b>162,432</b>	<b>3,896</b>	<b>64,981</b>	<b>390</b>	<b>117,324</b>	<b>18,584</b>	<b>100,330</b>	<b>44,686</b>	<b>23,173</b>	<b>19,066</b>	<b>468,240</b>	<b>86,622</b>		
<b>Master Plan - Horizontal Assets</b>																
1	5161596855	Royal to Main/King Sanitary Sewer Upgrades (WW-22) (CASH FLOWED)	18,040	0	6,840	0	0	0	0	0	0	0	24,880	0	2015	2018
5, 9	5161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	1,650	0	10,500	0	10,500	0	0	0	0	0	22,650	0	2016	2019
11	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	2,750	0	1,650	0	6,800	0	20,300	0	51,900	0	83,400	0	2016	2018

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2019 - 2028 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2019		2019		2020		2021		2022-2028		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Master Plan - Horizontal Assets</b>																
1	5161996954	Aberdeen at Hillside Neighbourhood Sewer Separation	0	0	450	450	0	0	2,230	2,230	990	990	3,670	3,670	2019	2024
			<b>22,440</b>	<b>0</b>	<b>19,440</b>	<b>450</b>	<b>17,300</b>	<b>0</b>	<b>22,530</b>	<b>2,230</b>	<b>52,890</b>	<b>990</b>	<b>134,600</b>	<b>3,670</b>		
<b>Master Plan - Vertical Assets</b>																
City Wide	5161555264	City-Wide Wastewater Master Plan	550	0	100	10	50	5	0	0	60	60	760	75	2015	2020
15	5161796786	First Street (Waterdown Sanitary) PS Upgrade DC014	3,450	1,345	1,480	577	0	0	0	0	0	0	4,930	1,922	2017	2019
City Wide	5161955010	Wastewater Systems Planning Program	0	0	600	600	300	300	300	300	1,830	1,830	3,030	3,030	2019	Ongoing
			<b>4,000</b>	<b>1,345</b>	<b>2,180</b>	<b>1,187</b>	<b>350</b>	<b>305</b>	<b>300</b>	<b>300</b>	<b>1,890</b>	<b>1,890</b>	<b>8,720</b>	<b>5,027</b>		
<b>Development/Extension Projects</b>																
2	4411506103	Pier 8 Sanitary PS & Forcemain	5,850	2,850	9,000	900	0	0	0	0	0	0	14,850	3,750	2015	2019
City Wide	5161996011	Intensification Infrastructure Upgrades Program - Wastewater	0	0	400	200	0	0	400	200	1,200	600	2,000	1,000	2019	Ongoing
9	5162080089	Rymal - Fletcher to Upper Centennial	0	0	0	0	5,330	0	0	0	0	0	5,330	0	2020	2020
6, 11	5162080584	RHBP - Nebo - Rymal to Twenty	0	0	0	0	830	0	0	0	0	0	830	0	2020	2020
11	5162280281	RHBP - Dartnall Road Extension - Twenty to Dickenson	0	0	0	0	0	0	0	0	400	0	400	0	2022	2022
			<b>5,850</b>	<b>2,850</b>	<b>9,400</b>	<b>1,100</b>	<b>6,160</b>	<b>0</b>	<b>400</b>	<b>200</b>	<b>1,600</b>	<b>600</b>	<b>23,410</b>	<b>4,750</b>		
<b>Coordinated Projects</b>																
City Wide	5161855777	LRT Corridor - Wastewater Infrastructure Assessment and Approvals	220	220	350	150	350	150	0	0	0	0	920	520	2018	2020
			<b>220</b>	<b>220</b>	<b>350</b>	<b>150</b>	<b>350</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>920</b>	<b>520</b>		
<b>Equipment Replacement</b>																
City Wide	5161966151	SCADA servers and network	0	0	1,500	0	1,000	1,000	0	0	0	0	2,500	1,000	2019	2019
			<b>0</b>	<b>0</b>	<b>1,500</b>	<b>0</b>	<b>1,000</b>	<b>1,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,500</b>	<b>1,000</b>		

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2019 - 2028 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2019		2019		2020		2021		2022-2028		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Maintenance Projects</b>																
5, 6	5161968920	Fennell/Greenhill Drop Shaft	0	0	180	180	550	550	390	390	16,650	16,650	17,770	17,770	2019	2026
4	5162068851	Pier 25 Dredging - Windermere Basin	170	170	0	0	0	0	0	0	13,500	13,500	13,670	13,670	2018	2021
4	5162161142	Eastern Sanitary Interceptor (ESI) at Battlefield Creek Trunk	0	0	0	0	0	0	290	290	0	0	290	290	2021	2021
			<b>170</b>	<b>170</b>	<b>180</b>	<b>180</b>	<b>550</b>	<b>550</b>	<b>680</b>	<b>680</b>	<b>30,150</b>	<b>30,150</b>	<b>31,730</b>	<b>31,730</b>		
<b>Outstations-Wastewater Investment Needs (WINS)</b>																
City Wide	5161667421	New Haulage Receiving Station	1,140	0	550	550	5,500	5,500	0	0	0	0	7,190	6,050	2016	2020
			<b>1,140</b>	<b>0</b>	<b>550</b>	<b>550</b>	<b>5,500</b>	<b>5,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,190</b>	<b>6,050</b>		
<b>Total Wastewater System</b>			<b>222,487</b>	<b>14,501</b>	<b>149,831</b>	<b>42,837</b>	<b>185,344</b>	<b>61,049</b>	<b>160,420</b>	<b>82,326</b>	<b>759,717</b>	<b>410,486</b>	<b>1,477,799</b>	<b>611,199</b>		

**CITY OF HAMILTON**  
**2019 Rate Program Capital Budget Summary**  
**(\$000'S)**

							Financing Source	
Gross Costs	Subsidy/ Other Revenues	Development Charges	WIP / Other Internal Sources	Reserves	Net Cost	Contribution From Operating	External Borrowings (Debentures)	
<b>2019 Sustainable Asset Management Strategy (SAM)</b>								
Rehabilitation, Replacement & Upgrade Projects	58,010	75	407	10,415	2,560	44,553	44,553	-
Projects Coordinated with Roads Program	19,120	810	-	1,350	-	16,960	16,960	-
S.E.R.G. Projects	1,410	-	-	-	-	1,410	1,410	-
Treatment Plant/Outstations Projects	46,240	-	1,500	6,100	4,000	34,640	20,299	14,341
Treatment Plant/Outstations Projects-WQI	900	-	-	-	-	900	900	-
Watermain Lining	6,900	-	-	2,925	-	3,975	3,975	-
<b>Sub-Total</b>	<b>132,580</b>	<b>885</b>	<b>1,907</b>	<b>20,790</b>	<b>6,560</b>	<b>102,438</b>	<b>88,097</b>	<b>14,341</b>
<b>Wastewater Investments Needs Strategies (WINS)</b>								
Treatment Plant/Outstations Projects	65,531	42,708	3,559	-	18,324	940	940	-
<b>Sub-Total</b>	<b>65,531</b>	<b>42,708</b>	<b>3,559</b>	<b>-</b>	<b>18,324</b>	<b>940</b>	<b>940</b>	<b>-</b>
<b>Master Plan</b>								
Horizontal and Vertical Assets	26,430	-	23,343	-	-	3,087	3,087	-
Technical Service Projects	6,570	-	580	200	1,080	4,710	4,710	-
<b>Sub-Total</b>	<b>33,000</b>	<b>-</b>	<b>23,923</b>	<b>200</b>	<b>1,080</b>	<b>7,797</b>	<b>7,797</b>	<b>-</b>
<b>Development Program</b>								
Development/Extension Projects	42,030	-	41,060	-	-	970	970	-
<b>Sub-Total</b>	<b>42,030</b>	<b>-</b>	<b>41,060</b>	<b>-</b>	<b>-</b>	<b>970</b>	<b>970</b>	<b>-</b>
<b>Total</b>	<b>273,141</b>	<b>43,593</b>	<b>70,449</b>	<b>20,990</b>	<b>25,964</b>	<b>112,145</b>	<b>97,804</b>	<b>14,341</b>



**CITY OF HAMILTON**  
**2019 - 2028 WATER / WASTEWATER / STORM CAPITAL FINANCING PLAN**  
**(\$'s)**

	<b>Restated</b>											
	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2019 - 2028</u>
<b>NET EXPENDITURES FORECAST</b>												
WASTEWATER (NET)	45,474,000	42,837,000	61,049,000	82,326,000	62,261,000	49,460,000	48,560,000	51,645,000	49,155,000	69,065,000	80,340,000	596,698,000
WATER (NET)	53,597,000	66,103,000	53,066,000	58,357,000	67,001,000	60,219,000	69,865,000	89,819,000	83,263,000	74,719,000	82,942,000	705,354,000
STORM (NET)	8,516,000	3,205,000	10,865,000	7,525,000	7,355,000	8,705,000	15,385,000	6,395,000	10,275,000	11,135,000	6,075,000	86,920,000
<b>TOTAL NET EXPENDITURES</b>	<b>107,587,000</b>	<b>112,145,000</b>	<b>124,980,000</b>	<b>148,208,000</b>	<b>136,617,000</b>	<b>118,384,000</b>	<b>133,810,000</b>	<b>147,859,000</b>	<b>142,693,000</b>	<b>154,919,000</b>	<b>169,357,000</b>	<b>1,388,972,000</b>
<b>SOURCE OF FINANCING</b>												
DEBT ISSUES	16,615,000	14,341,000	22,305,000	43,273,000	28,000,000	2,000,000	8,000,000	13,500,000	0	0	0	131,419,000
TRANSFER FROM OPERATING	90,972,000	97,804,000	102,675,000	104,935,000	108,617,000	116,384,000	125,810,000	134,359,000	142,693,000	154,919,000	169,357,000	1,257,553,000
<b>TOTAL CAPITAL FINANCING</b>	<b>107,587,000</b>	<b>112,145,000</b>	<b>124,980,000</b>	<b>148,208,000</b>	<b>136,617,000</b>	<b>118,384,000</b>	<b>133,810,000</b>	<b>147,859,000</b>	<b>142,693,000</b>	<b>154,919,000</b>	<b>169,357,000</b>	<b>1,388,972,000</b>
<b>OPERATING BUDGET IMPACT</b>												
TRANSFER FROM OPERATING	90,972,000	97,804,000	102,675,000	104,935,000	108,617,000	116,384,000	125,810,000	134,359,000	142,693,000	154,919,000	169,357,000	1,257,553,000
DC EXEMPTION FUNDING	9,000,000	9,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	81,000,000
DEBT CHARGES (NET)	17,107,544	19,365,685	23,509,461	29,068,999	34,905,364	37,406,883	37,589,643	38,323,402	38,676,874	36,980,921	34,497,380	330,324,612
<b>TOTAL CAPITAL FINANCING COSTS</b>	<b>117,079,544</b>	<b>126,169,685</b>	<b>134,184,461</b>	<b>142,003,999</b>	<b>151,522,364</b>	<b>161,790,883</b>	<b>171,399,643</b>	<b>180,682,402</b>	<b>189,369,874</b>	<b>199,899,921</b>	<b>211,854,380</b>	<b>1,668,877,612</b>

**CITY OF HAMILTON**  
**2019 - 2028 CAPITAL FINANCING CHARGES - RATE PROGRAMS**  
(\$'s)

	<u>Restated</u> <u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2019 - 2028</u>
<b><u>Wastewater</u></b>												
Existing External Debt Charges	7,012,631	8,259,325	8,119,283	7,972,083	7,828,297	7,639,718	7,449,320	7,303,122	7,159,185	6,632,132	5,268,388	73,630,851
Existing - Recovery from DC's	-113,893	-253,901	-253,526	-253,126	-252,738	-206,279	-159,829	-159,433	-159,046	-158,658	-158,275	-2,014,811
New External Debt Charges - Funded from Rates	830,868	445,234	1,335,702	3,553,284	6,011,723	6,697,812	6,697,812	6,697,812	6,697,812	6,697,812	6,697,812	51,532,815
New External Debt Charges - Funded from DC's	893,797	1,415,821	4,191,254	6,945,663	10,575,759	13,765,142	15,322,250	16,088,968	20,061,698	27,633,629	35,145,379	151,145,563
Recovery from DC's	-893,797	-1,415,821	-4,191,254	-6,945,663	-10,575,759	-13,765,142	-15,322,250	-16,088,968	-20,061,698	-27,633,629	-35,145,379	-151,145,563
Contribution to Capital	45,474,000	42,837,000	61,049,000	54,776,000	57,261,000	49,460,000	48,560,000	51,645,000	49,155,000	69,065,000	80,340,000	564,148,000
DC Exemption Funding	4,590,000	4,590,000	4,080,000	4,080,000	4,080,000	4,080,000	4,080,000	4,080,000	4,080,000	4,080,000	4,080,000	41,310,000
Subtotal	57,793,607	55,877,658	74,330,459	70,128,241	74,928,281	67,671,250	66,627,303	69,566,500	66,932,951	86,316,286	96,227,925	728,606,856
% Incr (Decr) from Previous Year	119%	-3%	33%	-6%	7%	-10%	-2%	4%	-4%	29%	11%	
<b><u>Water</u></b>												
Existing External Debt Charges	6,594,856	7,409,901	7,268,364	7,126,424	6,983,250	6,830,004	6,673,368	6,528,280	6,385,795	5,227,322	4,117,832	64,550,541
Existing - Recovery from DC's	-24,584	-58,344	-58,344	-58,344	-58,344	-46,053	-33,761	-33,761	-33,761	-33,761	-33,761	-448,235
New External Debt Charges - Funded from Rates	1,701,628	1,434,561	4,687,317	8,006,646	11,359,454	13,307,471	13,789,183	14,824,862	15,475,173	15,475,173	15,475,173	113,835,012
New External Debt Charges - Funded from DC's	1,152,058	918,025	4,081,850	7,823,743	10,191,601	11,096,186	11,377,958	12,634,075	14,343,403	16,199,253	18,524,884	107,190,977
Recovery from DC's	-1,152,058	-918,025	-4,081,850	-7,823,743	-10,191,601	-11,096,186	-11,377,958	-12,634,075	-14,343,403	-16,199,253	-18,524,884	-107,190,977
Contribution to Capital	36,982,000	51,762,000	30,761,000	42,634,000	44,001,000	58,219,000	61,865,000	76,319,000	83,263,000	74,719,000	82,942,000	606,485,000
DC Exemption Funding	2,547,000	2,547,000	2,240,000	2,240,000	2,240,000	2,240,000	2,240,000	2,240,000	2,240,000	2,240,000	2,240,000	22,707,000
Subtotal	47,800,901	63,095,118	44,898,336	59,948,726	64,525,360	80,550,423	84,533,790	99,878,381	107,330,206	97,627,734	104,741,243	807,129,319
% Incr (Decr) from Previous Year	-31%	32%	-29%	34%	8%	25%	5%	18%	7%	-9%	7%	
<b><u>Storm</u></b>												
Existing External Debt Charges	651,022	2,152,705	2,111,537	2,099,948	2,088,699	2,077,499	2,066,414	2,054,941	2,043,703	2,032,454	2,021,335	20,749,236
Existing - Recovery from DC's	-24,363	-185,049	-184,629	-184,181	-183,747	-183,313	-182,888	-182,444	-182,010	-181,576	-181,147	-1,830,985
New External Debt Charges - Funded from Rates	479,378	161,253	483,759	806,265	1,128,770	1,290,023	1,290,023	1,290,023	1,290,023	1,290,023	1,290,023	10,320,186
New External Debt Charges - Funded from DC's	708,743	1,636,096	4,664,351	6,607,726	7,710,159	8,421,861	8,742,831	9,063,801	9,384,772	9,705,742	10,029,120	75,966,460
Recovery from DC's	-708,743	-1,636,096	-4,664,351	-6,607,726	-7,710,159	-8,421,861	-8,742,831	-9,063,801	-9,384,772	-9,705,742	-10,029,120	-75,966,460
Contribution to Capital	8,516,000	3,205,000	10,865,000	7,525,000	7,355,000	8,705,000	15,385,000	6,395,000	10,275,000	11,135,000	6,075,000	86,920,000
DC Exemption Funding	1,863,000	1,863,000	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	16,983,000
Subtotal	11,485,037	7,196,909	14,955,666	11,927,032	12,068,723	13,569,210	20,238,549	11,237,520	15,106,716	15,955,901	10,885,211	133,141,437
% Incr (Decr) from Previous Year	-12%	-37%	108%	-20%	1%	12%	49%	-44%	34%	6%	-32%	
<b>TOTAL FINANCING CHARGES</b>	<b>117,079,544</b>	<b>126,169,685</b>	<b>134,184,461</b>	<b>142,003,999</b>	<b>151,522,364</b>	<b>161,790,883</b>	<b>171,399,643</b>	<b>180,682,402</b>	<b>189,369,874</b>	<b>199,899,921</b>	<b>211,854,380</b>	<b>1,668,877,612</b>
% Incr (Decr) from Previous Year	7%	8%	6%	6%	7%	7%	6%	5%	5%	6%	6%	

**HAMILTON WATER**  
**2019 RATE SUPPORTED STAFFING SUMMARY**

Deptid	Deptid Description	2018 REQUESTED	2018* RESTATED	2019 MAINTENANCE	2019 PROGRAM CHANGES	2019 REQUESTED	2019 REQUESTED vs. 2018 RESTATED
510200	Director Hamilton Water	3.00	3.00	3.00	0.00	3.00	0.00
510203	WWW Operations Director	2.00	2.00	2.00	0.00	2.00	0.00
510205	Woodward Upgrades	8.00	10.00	10.00	1.00	11.00	1.00
510210	Customer Service & Community Outreach	2.00	2.00	2.00	0.00	2.00	0.00
510215	Education & Outreach	5.25	5.65	5.65	0.00	5.65	0.00
510220	Service Co-ordination	23.00	22.00	21.00	0.00	21.00	-1.00
510230	Engineering Systems & Data Collection	9.00	9.00	9.00	0.00	9.00	0.00
510240	Compliance & Regulations	6.00	6.00	7.00	0.00	7.00	1.00
510250	Laboratory Services	26.00	26.00	26.00	0.00	26.00	0.00
510260	Environmental Monitoring & Enforcement	13.00	13.00	13.00	0.00	13.00	0.00
510270	Water Distribution (WD) & Wastewtr Collection (WWC)	6.00	5.00	5.00	1.00	6.00	1.00
510275	WD & WWC Contracts	20.00	20.00	20.00	0.00	20.00	0.00
510280	WD & WWC Construction	24.00	23.00	23.00	0.00	23.00	0.00
510285	WD & WWC Maintenance	19.00	20.00	20.00	0.00	20.00	0.00
510290	WD & WWC Operations	19.00	20.00	20.00	0.00	20.00	0.00
510300	WWW Planning & Capital Director	2.00	2.00	2.00	0.00	2.00	0.00
510305	Sustainable Initiatives	7.00	7.00	7.00	0.00	7.00	0.00
510310	Plant Operations & Maintenance	6.00	6.00	6.00	2.00	8.00	2.00
510320	Plant Maintenance	36.00	36.00	35.00	0.00	35.00	-1.00
510330	Plant Operations	39.00	37.00	37.00	0.00	37.00	0.00
510340	Capital Delivery	11.00	10.00	10.00	3.00	13.00	3.00
510350	Infrastructure Planning and System Design	16.00	16.00	17.00	0.00	17.00	1.00
<b>Total RATE Supported Staff</b>		<b>302.25</b>	<b>300.65</b>	<b>300.65</b>	<b>7.00</b>	<b>307.65</b>	<b>7.00</b>

Note: \* Council approved 1.6 FTE transfer to Corporate Call Centre

### 2019 Rate Budget - Business Case Summary

DEPARTMENT: Public Works

DIVISION	SERVICE / PROGRAM	DESCRIPTION OF PROGRAM ENHANCEMENT	2019 IMPACT			ANNUALIZED IMPACT
			\$ GROSS	\$ NET	FTE Impact	\$ NET
Hamilton Water	Woodward Upgrades Operational Support	Maintenance Operator required to support Woodward Upgrades Project	\$ 101,150	\$ -	1.00	\$ -
Hamilton Water	Water and Wastewater Capital Program	Capital Delivery Project Managers to support the WWTP Expansion, CWWF, growth related projects and asset replacement	\$ 433,110	\$ -	3.00	\$ -
Hamilton Water	Sewer Lateral Cross Connection Program	Project Managers to deliver the Cross Connection program as per Council's direction to reduce sanitary discharges <u>NOTE:</u> Council approved a 2 year temporary assignment and requested we report back in 2019	\$ 225,910	\$ -	2.00	\$ -
Hamilton Water	Wastewater Quality Management System	Technologist to develop the framework of a Wastewater Quality Management System <u>NOTE:</u> This position is term and task for 24 months	\$ 99,595	\$ -	1.00	\$ -
<b>Divn Subtotal</b>			<b>\$ 859,765</b>	<b>\$ -</b>	<b>7.00</b>	<b>\$ -</b>
<b>DEPARTMENT TOTAL</b>			<b>\$ 859,765</b>	<b>\$ -</b>	<b>7.00</b>	<b>\$ -</b>

TOTAL NET Impact = net annualized (full year) amount - please state under "Description of Program Enhancement" if other revenue sources will be used to offset the cost of the program change (therefore identify gross cost); also please identify if 2019 calendar (part-year) impact is significantly different due to delayed implementation.