



# The Regional Municipality of Durham Report

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To: Committee of the Whole  
From: Commissioner of Finance and Commissioner of Works  
Report: #2019-COW-33  
Date: December 11, 2019

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**Subject:**

Recommended 2020 Water and Sanitary Sewer User Rates

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**Recommendations:**

That the Committee of the Whole recommends to Regional Council:

- A) That the 2020 Regional water rates increase by 2.3% and Regional sanitary sewer rates increase by 4.0% from the 2019 user rate levels as set out in Schedule 1 and Schedule 2 respectively (attached), effective January 1, 2020 (increase for an average residential customer of 3.2%);
- B) That the 2020 Raw Water rates for the Whitby raw water customers be increased by 5.0% as set out in Schedule 1 (attached), effective January 1, 2020;
- C) That the 2020 water charges for the Sun Valley Heights Homeowners Co-operative Water System be as set out in Schedule 3 (attached), effective January 1, 2020;
- D) That the 2020 Regional Water and Sanitary Sewer Systems Miscellaneous Fees and Charges be as set out in Schedule 4 (attached), effective January 1, 2020;
- E) That the 2020 fee schedule for laboratory services at the Regional Environmental Laboratory located at the Duffin Creek Water Pollution Control Plant be as set out in Schedule 5 (attached), effective January 1, 2020; and
- F) That the Regional Solicitor be instructed to prepare the necessary by-laws to implement the foregoing recommendations.

**Executive Summary:****1. Background**

- 1.1 This report relates to the recommended Water and Sanitary Sewer User Rates to be effective January 1, 2020. It is presented concurrently with and supports Report #2019-COW-32: 2020 Water Supply and Sanitary Sewerage Strategic Issues and Financial Forecast, which describes the financing of proposed capital works in 2020 and future years.
- 1.2 The Region's water and sanitary sewer user rates are reviewed annually, and recommendations are made to Council in December, prior to a January 1st implementation of approved user rates. It is imperative that user rates be approved in 2019 in order that they can be implemented with the first customer billings commencing early January 2020.
- 1.3 The water and sanitary sewage systems are “User Pay” as property taxes are not used to fund water and sanitary sewage systems costs.
- 1.4 Public notification that the proposed 2020 water and sanitary sewer user fees and related charges will be considered by the Committee of the Whole on December 11<sup>th</sup> and by Regional Council on December 18<sup>th</sup>, 2019, was provided twice in local newspapers throughout the Region on November 7<sup>th</sup> and 14<sup>th</sup>, 2019 and was posted on the Region’s website.

**2. Highlights**

- 2.1 2020 Recommended Water and Sanitary Sewer User Rate Increases
  - 2.1.1 The recommended 2.3% water user rate increase and 4.0% sanitary sewer user rate increase (3.2% combined for an average residential customer) supports an increase in net user rate supported expenditures of 3.5% for water and 5.5% for sanitary sewage. The current 2019 and recommended 2020 Water and Sanitary Sewer User Rates are provided in Schedule 1 and Schedule 2 respectively (attached). This represents approximately \$30.56 per year for an average residential customer.
  - 2.1.2 The recommended user rates are based on operating, capital costs and financing as outlined in detail in #2019-F-52: 2020 Current and Capital Business Plans and Budgets and Nine-Year Capital Forecasts for the Water Supply and Sanitary Sewerage Systems (on the December 10<sup>th</sup> Finance and Administration Committee agenda), as well as customer and consumption projections described below.
  - 2.1.3 For water, the user rate increase of 2.3% is required to finance a proposed preliminary 2020 net user rate supported budgeted expenditure increase of \$3.80 million or 3.5% over 2019, which will allow for:
    - A net Operating Cost increase of \$2.37 million mainly for annual economic and inflationary increases for services and supplies, annualization of 2.3 Full Time Equivalent (FTE's) from 2019 and 4.4 new FTE's for 2020; and
    - A Capital Program/Contribution increase of \$1.43 million in the user rate

supported contribution.

2.1.4 For sanitary sewer, the user rate increase of 4.0% is required to finance the proposed preliminary 2020 user rate supported budgeted net expenditure increase of \$5.59 million or 5.5% over 2019, which will allow for:

- A net Operating Cost increase of \$3.51 million mainly for annual economic and inflationary increases for services and supplies, annualization of 2.3 Full Time Equivalents (FTE's) from 2019 and 2.2 new FTE's for 2020;
- A Capital Program/Contribution increase of \$3.50 million (user rate share); and
- A Debt Repayment decrease of \$1.42 million (user rate share) due to debt retirement related to the York Durham system.

2.1.5 The impact on water and sewer system user revenues of the planned closing of the General Motors (GM) assembly plant and related feeder plants has been integrated into the water and sewer user rate projections. In 2018, GM-related water and sewer user rate revenues represented about 1% of total user rate revenues. The recommended overall water and sewer user rate increase of 3.2% incorporates this 1% loss of revenue with the remaining 2.2%, if there was no impact from General Motors, in line with the rate of inflation.

2.2 Basis for the Proposed 2020 User Rates

- The projected data used to develop the 2020 user rates includes the following:

#### Projected Data Used to Develop 2020 Water & Sanitary Sewer User Rates

Parameter	Water	Sanitary Sewage
<b>Customers</b>		
- Number	179,293	175,252
- Growth from 2019 Actual	1.00%	1.05%
<b>Consumption/Flow</b>		
- Cubic metres (millions)	52.66	50.67
- Increase from 2019 Budget	1.1%	1.1%
<b>Projected User Rate Supported Expenditures</b>		
- Total Expenditures	\$111,720,800	\$107,677,900
- Increase from 2019 Budget	3.5%	5.5%
<b>User Rate Change Required</b>		
- Percent	<b>2.3%</b>	<b>4.0%</b>
- Impact on Revenue of 1% Rate Change	<b>\$1,092,000</b>	<b>\$1,035,000</b>

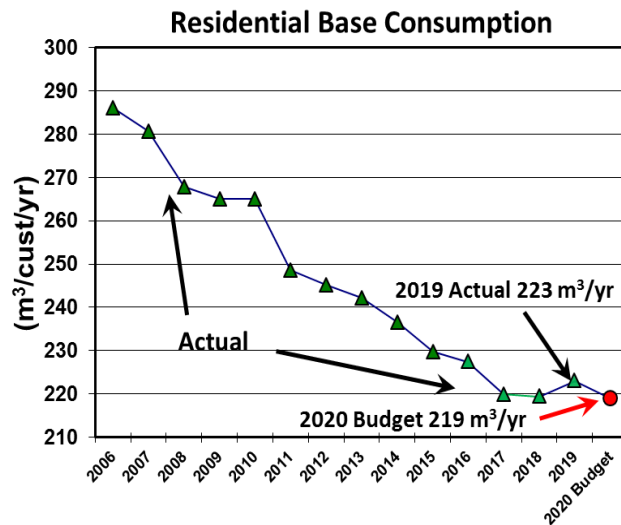
- **Impact of a 1% Rate Change** - Any change in either expenditures or other revenues by \$1,092,000 for water or \$1,035,000 for sanitary sewer is equivalent to a 1% change in the respective user rate.

## 2.3 Customer and Consumption Projections

2.3.1 Customer growth in 2020 is projected at 1.00% for water and 1.05% for sanitary sewage.

2.3.2 Billed water consumption for 2020 is projected as follows:

- **Overall** – Total billed 2020 water consumption and sewage flows are projected to both increase by 1.1% compared to 2019 budget.
- **Residential** – Residential water consumption has two components: Basic day-to-day usage year-round (Base Consumption) and seasonal usage. Base Consumption is recalculated each year using data up to May, that is excluding seasonal summer usage. For several years, residential Base Consumption per customer steadily decreased. Contributing factors included the water efficient fixtures required in new construction by the Provincial Building Code and the popularity of more water efficient appliances.



Until recently the average decline in residential Base Consumption has been 2.4% per year. Starting in 2017, data is suggesting a levelling off, with 2019 coming in slightly higher than 2018. Base usage in 2020 is projected to have levelled off at 219 m<sup>3</sup>/customer per year.

- **Non-Residential (ICI) Consumption Share** – ICI consumption share relative to residential usage is projected to decrease to 25% in 2020 from 28% in 2019 due to a combination of a projected 3.3% increase in residential usage and a projected 4.7% decrease in ICI usage.
- **Small to Medium Size ICI Water Users** – Although 1<sup>st</sup> block consumption is projected to increase, consumption in the second-rate block is projected to decrease for a combined impact of a 3.6% decrease.
- **Large Water Users** – Based on current large customer consumption levels compared to 2019 Budget, it is projected that 2020 3<sup>rd</sup> block consumption will be 7.3% lower than budgeted for 2019.

## 2.4 Customer Impacts

2.4.1 Average Residential Customers – It is projected that in 2020, the average annual

residential per customer consumption will be 225.5 m<sup>3</sup> (includes base usage at 219.0 m<sup>3</sup> and seasonal usage at 6.5 m<sup>3</sup>). The recommendation that the 2020 water and sanitary sewer user rates be increased over 2019 rate levels results in an increase of \$7.64 or 3.2% on a quarterly bill (\$30.56 per annum) for the average customer.

<b>2020 Proposed Regional User Rate Charges</b>				
<b>Typical Residential Customer Impact</b>				
Annual Water Consumption	49,610	gallons/year		
	225.5	m <sup>3</sup> /year		
<b>Billings (\$/quarter)</b>				
	2019	2020		
	Actual	Proposed	Increase	
Water	\$118.72	\$121.45	\$2.73	2.3%
Sewage	\$123.05	\$127.96	\$4.91	4.0%
Total (\$/quarter)	\$241.77	\$249.41	\$7.64	3.2%
Annual Billing (\$/year)	\$967.08	\$997.64	\$30.56	3.2%

2.4.2 **Industry** - The proposed 2020 water and sanitary sewer user rates result in a bi-monthly increase of \$2,922 or 3.3% for a customer using 227,272 m<sup>3</sup> annually (50 million gallons - a customer in the top 25 users) as indicated below:

<b>2020 Proposed Regional User Rate Charges</b>				
<b>Large Industrial Customer Impact</b>				
Annual Water Consumption	50,000,000	gallons/year		
	227,272	m <sup>3</sup> /year		
<b>Billings (\$ bimonthly)</b>				
	2019	2020		
	Actual	Proposed	Increase	
Water	\$34,822	\$35,626	\$804	2.3%
Sewage	\$52,932	\$55,050	\$2,118	4.0%
Total (\$ bimonthly)	\$87,754	\$90,676	\$2,922	3.3%
Annual Billing (\$/year)	\$526,524	\$544,056	\$17,532	3.3%

## 2.5 Competitiveness of Durham's Water and Sewage Rates

2.5.1 **Residential customers** - Of 13 larger municipalities surveyed across Ontario, Durham's 2019 Regional water and sanitary sewer charges are below average and are the 5<sup>th</sup> lowest.

2.5.2 **Large users** - The Region's 2019 water and sewage rates were the 3<sup>rd</sup> lowest for a large user, of the 13 municipalities surveyed. The Region's declining block rates reflect the Region's reduced unit cost of servicing large customers.

2.5.3 **Affordability** – Although in comparative terms, Durham's average residential water and sewer charges compare favorably with other municipalities and utilities, these measures do not directly address the issue of affordability. A frequently used metric for assessing affordability is by comparing water and sewage charges

to average family income, expressed as a percentage. A US Environmental Protection Agency report on drinking water affordability lists a number of studies which suggest an affordability threshold for water and/or sewage charges in the range of 1.5% to 2.5% of average annual income. Durham's water and sewer service costs combined, for an average customer, are below the threshold at about 1% of the average Oshawa census family income. Since this comparison only represents an average, more in-depth comparisons would be more informative. Regional staff are investigating various affordability metrics related to income to gauge in more comprehensive terms the relative affordability of Durham's water and sanitary sewer service charges.

## 2.6 Other Fees & Charges

**2.6.1 Schedule 1 – Recommended Raw Water Rate** – The Region operates a raw water system in Whitby which is supplied from the Whitby Water Supply plant. By 2020 the number of customers connected to the Region's Raw Water System will have been reduced from three (3) at the beginning of 2018 to one (1) by the end of 2019. Two customers will have converted their raw water usage to Regional potable water. The raw water rate, which is separate from the potable water rate, will be re-analyzed once the full impact of the changes in raw water consumption and costs can be established. Based on the impact of reduced raw water consumption and operating costs in 2020, it is recommended that the raw water rate be increased by 5% or 1.6 cents/cubic metre which is in line with the recommended 2.0 cents/m<sup>3</sup> increase in the third (3<sup>rd</sup>) block rate. The proposed 2020 raw water rate is approximately 38% of the 3<sup>rd</sup> block potable water rate.

**2.6.2 Schedule 3 –Sun Valley Heights Homeowners Co-operative Water System Recommended Charges** – The charges for this local system serving 17 customers are separate from the Regional water and sewage rates. The 2020 recommended rate has been adjusted based on projected costs for this local system and is recommended to increase by \$6 per quarter (\$24/year or about 1.4%).

**2.6.3 Schedule 4 – Recommended Miscellaneous Fees & Charges** – This schedule includes a number of fee categories, each reviewed individually. Most of the recommended 2020 charges increases vary from no increase to about 2%. The recommended charges which differ from current 2019 fees and charges are **bolded**.

Specific considerations and circumstances warrant changes beyond 2% to the following fees and charges:

- **Items 9) to 16) Water & Sanitary Sewer Frontage Charges** – Historically the Region has allowed customers to convert frontage charges from a single upfront payment to payments spread out over 10-years at 6% interest. At the June 26, 2019 Council meeting, approval was provided for extensions in the Greenbelt resulting from successful petitions and that customers be offered optional 10 or 15-year repayment at the prime rate of

the Region's financial institution plus 1.5%, with the prime rate based on the date of the final letter outlining fees owing. Staff was also directed to review frontage charge repayment terms in general as part of the 2020 User Rate Study.

The following is recommended for all frontage charges both inside and outside the Greenbelt, for both water and sanitary sewerage systems and for both petition and non-petition projects:

- **Repayment Period** - Terms of 10 or 15-years be offered to the customer.
  - **Interest Rate** – Set at the prime rate of the Region's financial institution plus 1.5%, with the prime rate based on the date of the final letter outlining fees owing.
  - **Payments Calculated on an Individual Basis** – Repayment is billed on the water and sewer bills (residential are quarterly) and the amount in each instance will be established in accordance with the above parameters. Since the annual payments will now be case-specific, standard fixed annual amounts will no longer apply and are removed from the Miscellaneous Fees & Charges schedule.
  - **Applies to All Cases** – As noted above, these terms would apply to both petition and non-petition as well as both the water and sanitary sewerage systems.
- **Item 20) Unmetered Water used for construction (building purposes) per service** – The volume of water used during home or building construction up until completion, and meters are installed, typically during subdivision construction, is charged to builders by means of the building purposes charge. The 2017 User Rate report set out a staged increase in the Building Purposes charge over the period 2017 to 2020. The recommended 2020 Building Purposes Charge based on 2019 rates and 200 m<sup>3</sup> per unit is \$222, an increase from \$187 in 2019.
  - **Item 36) - Water from Water Supply Plants, Water Pollution Control Plants, Works Depots & Bulk Filling Stations** – Customers can sign up for keys which allow them to purchase water from bulk filling stations which are located at five (5) of the Region's water supply plants. It is recommended that three of the current charges, a Minimum Volume Charge, a Flat Rate and an Annual Account Administration Fee be eliminated and replaced with a simpler approach of charging a one-time new account fee (\$42.00) plus a monthly service charge (\$21.00). The recommended charges are based on a cost analysis of operating the program and align the charges with the approach used for the potable water system.
- 2.6.4 **Schedule 5 – Recommended Laboratory Fees** – The recommended 2020 Fee Schedule for Laboratory Services at the Regional Environmental Laboratory is provided in Schedule 5.

### 3. New Water Billing System

In 2019, the Region implemented a new modern waterbilling system. To be launched in early 2020, the billing system will feature a new web-based customer portal, “MyDurhamWater”, which will provide customers with online access to their accounts to:

- View billing information online;
- Enter meter readings online;
- Choose from multiple payment options, including e-payments;
- Receive bills online through paperless e-billing; and
- Seamlessly access the Region’s website for rates and other water billing information.

### 4. Risk Factors

The water and sanitary sewer user rates required to support the capital forecasts to 2029 include preliminary cost estimates for known projects and in some cases only allowances have been made until detailed designs are complete. However, there are other factors that will have cost implications which are unknown at this time and have not been quantified. The factors that will put additional pressures on future user rates include:

- Potential for further reductions in water usage and thus related revenues without resulting in corresponding cost reductions;
- Any economic decline could result in lower system utilization with consequent decrease in water and sanitary sewer user rate revenues;
- Market price impacts and volatility, including energy input prices and related equipment and supplies; and
- Increased capital investment costs due to asset management and climate change conditions.

### 5. Future Issues

5.1 Based upon projections to 2029, it is estimated that the combined water and sewer user rate increase of approximately 4% to 6% per year may be required over the forecast period depending on future customer growth, water demand, operating costs and debt charge decisions. The cost factors behind these significant increases include the following:

- Customer growth may be lower than experienced for a number of years and is projected to remain at low levels;
- Billed water consumption has levelled off in the past few years, with reduced consumption per customer offset by increases in number of customers, it is projected that total consumption will continue at current levels;



- Water supply and sanitary sewerage infrastructure require large capital investments to meet regulatory, asset management, climate change adaptation/mitigation and growth-related requirements, in particular for treatment plant and trunk main services. In addition, the forecast debt servicing costs are projected to increase;
- Water and sewage user rates are the funding source for capital investments for rehabilitation and replacement in order to maintain assets in a good state for operations, as well as a portion of growth costs (net of development charge contributions and grants); and
- Regulatory changes mandating investments in infrastructure are unknown until site specific review and engineering is conducted.

5.2 Total and user rate share of major water and sewage systems capital projects over the forecast period (2020-2029) are discussed in Report #2019-COW-32: 2020 Water Supply and Sanitary Sewerage Strategic Issues and Financial Forecast.

## **6. Schedules of Rates & Fees**

6.1 The recommended Durham Region 2020 water and sanitary sewer user rates, fees and charges are set out in the attached schedules, as follows:

- The recommended 2020 Water User Rates are 2.3% higher than the 2019 rates and are set out in Schedule 1.
- The recommended 2020 Raw Water Rate for the Whitby raw water customers is 5.0% higher than 2019 and is set out in Schedule 1.
- The recommended 2020 Sewage User Rates are 4.0% higher than the 2019 rates and are set out in Schedule 2.
- The recommended 2020 Water Rate for the Sun Valley Heights Homeowners Co-operative Water System is set out in Schedule 3.
- The recommended 2020 Water & Sanitary Sewer Systems Miscellaneous Fees & Charges (adjusted to reflect changes in cost structures and inflation) are set out in Schedule 4.
- The recommended 2020 Fee Schedule for Laboratory Services at the Regional Environmental Laboratory located at the Duffin Creek WPCP is set out in Schedule 5.

**7. Attachments**

Schedule 1 – Recommended 2020 Water User Rates

Schedule 2 – Recommended 2020 Sewage User Rates

Schedule 3 – Recommended 2020 Water Rate for the Sun Valley Heights Homeowners Co-operative Water System

Schedule 4 – Recommended 2020 Water & Sanitary Sewer Systems Miscellaneous Fees & Charges

Schedule 5 – Recommended 2020 Fee Schedule for Laboratory Services at the Regional Environmental Laboratory Located at the Duffin Creek WPCP

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Nancy Taylor, BBA, CPA, CA  
Commissioner of Finance

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Susan Siopis, P. Eng.  
Commissioner of Works

Recommended for Presentation to Committee:

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Elaine Baxter-Trahair  
Chief Administrative Officer

## Schedule 1 - Recommended 2020 Water User Rates

REGIONAL MUNICIPALITY OF DURHAM									
Water User Rate Schedule				2020 Rate Increase = 2.3%					
Monthly									
Effective January 1, 2020									
Volumetric Charges									
Block	Consumption Range			Current		Proposed			
	From	To	Units	2019		2020			
First Block	0	to 45	cubic metres/month	\$1.112	/cubic metre	\$1.137	/cubic metre		
	0	to 10,000	gallons/month	\$5.054	/1,000 gallons	\$5.170	/1,000 gallons		
	0	to 1,600	cubic feet/month	\$3.149	/100 cubic feet	\$3.221	/100 cubic feet		
Second Block	46	to 4,500	cubic metres/month	\$0.946	/cubic metre	\$0.967	/cubic metre		
	10,001	to 1,000,000	gallons/month	\$4.298	/1,000 gallons	\$4.397	/1,000 gallons		
	1,601	to 160,000	cubic feet/month	\$2.678	/100 cubic feet	\$2.739	/100 cubic feet		
Third Block		Over 4,500	cubic metres/month	\$0.868	/cubic metre	\$0.888	/cubic metre		
		Over 1,000,000	gallons/month	\$3.946	/1,000 gallons	\$4.037	/1,000 gallons		
		Over 160,000	cubic feet/month	\$2.458	/100 cubic feet	\$2.515	/100 cubic feet		
Basic Charges (\$/month)									
Meter/Fire Line Size		Service Charge		Minimum Charge		Unmetered Fire Line Charge			
Inches	mm	Current 2019	Proposed 2020	Current 2019	Proposed 2020	Current 2019	Proposed 2020		
Standard	Standard	\$18.68	\$19.11	n/a	n/a	n/a	n/a		
1-inch	25-mm	\$37.97	\$38.84	\$63.00	\$65.00	\$14.43	\$14.76		
1 ½-inch	38-mm	\$80.82	\$82.68	\$121.00	\$124.00	\$19.39	\$19.84		
2-inch	51-mm	\$174.55	\$178.56	\$234.00	\$239.00	\$37.54	\$38.40		
2 ½-inch	64-mm	n/a	n/a	n/a	n/a	\$49.74	\$50.88		
3-inch	76-mm	\$306.83	\$313.89	\$400.00	\$410.00	\$65.94	\$67.46		
4-inch	102-mm	\$610.12	\$624.15	\$790.00	\$808.00	\$131.90	\$134.93		
5-inch	127-mm	n/a	n/a	n/a	n/a	\$177.10	\$181.17		
6-inch	152-mm	\$1,133.93	\$1,160.01	\$1,442.00	\$1,476.00	\$243.55	\$249.15		
8-inch	203-mm	\$1,933.10	\$1,977.56	\$2,370.00	\$2,425.00	\$405.82	\$415.15		
10-inch	254-mm	\$3,145.71	\$3,218.06	\$3,755.00	\$3,841.00	\$647.57	\$662.46		
12-inch	305-mm	n/a	n/a	n/a	n/a	\$913.03	\$934.03		
Flat Rate (includes consumption)									
		Current 2019	Proposed 2020						
Monthly/unit		\$43.95	\$44.96						
Quarterly/unit		\$131.85	\$134.88						
Annually/unit		\$527.40	\$539.52						
Other - Raw Water Rate				Recommended Raw Water Rate Increase: 5.0%					
				Current 2019		Proposed 2020			
All volumes		cubic metres		\$0.323 /cubic metre		\$0.339 /cubic metre			
		gallons		\$1.469 /1,000 gallons		\$1.542 /1,000 gallons			
Late payment charge is 2%. A bill payment is late if not made within 16 days of the date on which the bill is issued.									

## Schedule 2 - Recommended 2020 Sewage User Rates

REGIONAL MUNICIPALITY OF DURHAM							
Sewage User Rate Schedule				2020 Rate Increase = 4.0%			
Monthly							
Effective January 1, 2020							
<b>Volumetric Charges</b>							
Block	Consumption Range			Current 2019		Proposed 2020	
	From	To	Units				
First Block	0	to 45	cubic metres/month	\$1.806	/cubic metre	\$1.878	/cubic metre
	0	to 10,000	gallons/month	\$8.209	/1,000 gallons	\$8.537	/1,000 gallons
	0	to 1,600	cubic feet/month	\$5.114	/100 cubic feet	\$5.319	/100 cubic feet
<i>Sewer rate expressed as a % of water rate</i>				162.4%		165.1%	
Second Block	46	to 4,500	cubic metres/month	\$1.589	/cubic metre	\$1.653	/cubic metre
	10,001	to 1,000,000	gallons/month	\$7.224	/1,000 gallons	\$7.513	/1,000 gallons
	1,601	to 160,000	cubic feet/month	\$4.501	/100 cubic feet	\$4.681	/100 cubic feet
<i>Sewer rate expressed as a % of water rate</i>				168.1%		170.9%	
Third Block		Over 4,500	cubic metres/month	\$1.336	/cubic metre	\$1.389	/cubic metre
		Over 1,000,000	gallons/month	\$6.071	/1,000 gallons	\$6.314	/1,000 gallons
		Over 160,000	cubic feet/month	\$3.782	/100 cubic feet	\$3.934	/100 cubic feet
<i>Sewer rate expressed as a % of water rate</i>				153.9%		156.4%	
<b>Basic Charges (\$/month)</b>							
Meter	Service Charge		Minimum Charge		Flat Rate/unit		
	Current 2019	Proposed 2020	Current 2019	Proposed 2020	Current 2019	Proposed 2020	
Standard	\$7.08	\$7.36	No minimum charge		\$48.13	\$50.05	
All other sizes							
Monthly	\$7.08	\$7.36	\$48.00	\$50.00	\$48.13	\$50.05	
Quarterly	\$21.24	\$22.08			\$144.39	\$150.15	
Annually	\$84.96	\$88.32			\$577.56	\$600.60	
Late payment charge is 2%. A bill payment is late if not made within 16 days of the date on which the bill is issued.							

## Schedule 3 - Recommended 2020 Water Charges for the Sun Valley Heights Homeowners Co-operative Water System

### Sun Valley Home Owners Co-Operative 2020 Projected Costs

Cost Item	Budget	Projected Cost
	2019	2020
	\$	\$
Hydro Electricity	2,000	2,000
Property Taxes	446	500
Laboratory Costs	2,255	2,255
Vehicle	2,870	2,870
Operator & Reports	16,513	16,847
Operation Materials	2,600	2,600
Maintenance Materials & Other	600	600
Machinery and Equipment	1,550	1,550
<b>TOTAL</b>	<b>28,834</b>	<b>29,222</b>
<b>Monthly charges per property owner (billings sent quarterly)</b>	<b>\$141</b>	<b>\$143</b>
<b>Annual cost per property owner</b>	<b>\$1,692</b>	<b>\$1,716</b>

## Schedule 4 - Recommended 2020 Water & Sanitary Sewer Systems Miscellaneous Fees & Charges

### THE REGIONAL MUNICIPALITY OF DURHAM

#### WATER & SANITARY SEWER SYSTEMS MISCELLANEOUS CHARGES

(Excludes Any Applicable Taxes – except where noted)

Schedule 4 - Recommended 2020 Miscellaneous Charges  Item Number & Description	By-Law Schedule Reference		Existing 2019 Charges		Recommended 2020 Charges
	Water By-law #89-2003	Sewer By-law #90-2003	Water \$	Sewer \$	Note: Changes are in Bold \$
<b>SERVICE CONNECTION RELATED CHARGES</b>					
1) Water Service Connection Charges, for single family and semi-detached residential lots including those for pre-installed stubs: a) 19mm (3/4") diameter - Base Rate – Apr 1 – Nov 30 - Winter Rate – Dec 1 – Mar 31 b) 25mm (1") diameter - Base Rate – Apr 1 – Nov 30 - Winter Rate – Dec 1 – Mar 31	D1		3,700.00 4,810.00 4,600.00 5,980.00		3,700.00 4,810.00 4,600.00 5,980.00
2) Water Service Connections, not covered above, including apartment buildings (from duplexes to multi floor buildings), townhouses and condominiums on blocks of land or recreational, institutional, commercial and industrial buildings: a) 19-mm (3/4") diameter minimum charge b) 25-mm (1") diameter minimum charge	D2		Actual Cost  3,700.00 4,600.00		Actual Cost  3,700.00 4,600.00
3) Inspection of an installation of a separate fire line on private property	D3		125.00		125.00
4) Sanitary Sewer Service Connection Charges for single family and semi-detached residential lots for pre-installed stubs 100 or 125mm (4" or 5") diameter: - Base Rate (Apr 1 – Nov 30) - Winter Rate (Dec 1 – Mar 31)		C1		3,843.00 5,005.00	3,843.00 5,005.00
5) Sanitary Sewer Service Connections, not covered above, including apartment buildings (from duplexes to multi-floor buildings), townhouses and condominiums on blocks of land or recreational, institutional, commercial and industrial buildings: - Minimum Charge		C2		Actual Cost  3,843.00	Actual Cost  3,843.00
6) Storm Sewer Service Connections: - Minimum Charge		C3		Actual Cost 3,843.00	Actual Cost 3,843.00

Schedule 4 - Recommended 2020 Miscellaneous Charges  Item Number & Description	By-Law Schedule Reference		Existing 2019 Charges		Recommended 2020 Charges
	Water By-law #89-2003	Sewer By-law #90-2003	Water \$	Sewer \$	Note: Changes are in Bold \$
7) Reuse of Water/Sewer Service Connection where building has been or will be demolished or removed: - Inspection fee	D4	C4	125.00	125.00	125.00 each
- Where a disused Water/Sewer Service Connection is to be replaced by the Region			See above service connection charges		
8) Disconnecting, rendering inoperable, reconnecting or restoring Water/Sewer connection	D5	C5	Actual Cost		Actual Cost
<b>FRONTAGE CHARGES (see Notes 1 to 6)</b>					
9) Frontage charges for non-standard watermain sizes and frontage charges for watermain projects initiated by petition.	E1 & E2		Actual Cost		Actual Cost
10) Standard 150-mm (6-inch) diameter Watermain (Note 3) - /metre - /foot	E1 & E2		378.00 115.21		<b>460.00</b> <b>140.21</b>
11) Standard 200-mm (8-inch) diameter Watermain - /metre - /foot	E1 & E2		436.00 132.89		<b>528.00</b> <b>160.93</b>
12) Standard 300-mm (12-inch) diameter Watermain - /metre - /foot	E1 & E2		476.00 145.08		<b>570.00</b> <b>173.74</b>
13) Frontage charges for non-standard Sanitary Sewer sizes and frontage charges for Sanitary Sewer projects initiated by petition.		D1 & D2		Actual Cost	Actual Cost
14) Standard 200-mm (8-inch) diameter Sanitary Sewer (Note 3) - /metre - /foot		D1 & D2		419.00 127.71	<b>507.00</b> <b>154.53</b>
15) Standard 250-mm (10-inch) diameter Sanitary Sewer - /metre - /foot		D1 & D2		477.00 145.39	<b>575.00</b> <b>175.26</b>
16) Standard 300-mm (12-inch) diameter Sanitary Sewer - /metre - /foot		D1 & D2		529.00 161.24	<b>637.00</b> <b>194.16</b>
<b>Note (1)</b> – Property owners requiring non-standard main sizes charged actual cost.					
<b>Note (2)</b> – Frontage charges may be financed at an annual interest rate of the prime rate of the Region's financial institution plus 1.5% for a payment term of 10 or 15 years. The payment term is at the option of the Property Owner. Frontage charges shall be added to the Property Owner's Water and Sewer bill and will be billed and collected in the same manner as Water and Sewer Rates.					
<b>Note (3)</b> – Residential frontage charges to be assessed on the basis of a standard 150-mm (6-inch) diameter watermain and a standard 200-mm (8-inch) diameter sanitary sewer.					
<b>Note (4)</b> – Any frontage charges for non-standard main sizes, or any extraordinary circumstances, be assessed by					

Schedule 4 - Recommended 2020 Miscellaneous Charges  Item Number & Description	By-Law Schedule Reference		Existing 2019 Charges		Recommended 2020 Charges
	Water By-law #89-2003	Sewer By-law #90-2003	Water \$	Sewer \$	Note: Changes are in Bold \$
the Commissioners of Finance and Works on a case by case basis to ensure full cost recovery.					
<b>Note (5)</b> – Rate may vary if estimated construction costs vary significantly from the rates noted above.					
<b>Note (6)</b> – Frontage charges for petition projects shall be based on actual costs.					
<b>MISCELLANEOUS CHARGES</b>					
17) <u>Water Shut Off/Turn On</u> <b>Initiated by Customer:</b> During normal Regional working hours: - Shut Water Off - Turn Water On - Shut Off & Turn On During Same Call  After normal Regional working hours: - Shut Water Off - Turn Water On - Shut Off & Turn On During Same Call  <b>Initiated by Region:</b> For failure by the Customer to arrange with the Region for meter installation, replacement, repair or inspection or meter reading (off or on, each)  For Water Shut Off Notification prior to shut off action being taken  For Water Shut Off for collection action, (water not necessarily shut off) for non-payment of Water/Sewer bill, or any Regional invoice, or for violation of any provision of the Water System/Sewer System By-laws (water not necessarily shut off)  Turn Water On	F1	E1	80.00 80.00 80.00  120.00 120.00 120.00  80.00  25.00 for both  94.00 for both  80.00 for both		80.00 80.00 80.00  120.00 120.00 120.00  80.00  25.00 for both  94.00 for both  80.00 for both
18) Standby charge while water service is shut off but not disconnected or water service is available for fire protection purposes but not connected	F2		Standard Service Charge		Standard Service Charge
19) <u>Testing of Water Meter</u> Initiated by Customer: - Deposit Fee where the meter is found to measure the flow of water within or below AWWA Specifications - Up to a maximum size of 25mm - Over 25mm Fee if meter is found to measure the flow of water above AWWA specifications	F3		210.00  210.00 Actual Cost  No Charge		210.00  210.00 Actual Cost  No Charge
20) Unmetered water used for construction (building purposes) per service	F4		187.00		<b>222.00</b>



Schedule 4 - Recommended 2020 Miscellaneous Charges  Item Number & Description	By-Law Schedule Reference		Existing 2019 Charges		Recommended 2020 Charges
	Water By-law #89-2003	Sewer By-law #90-2003	Water \$	Sewer \$	Note: Changes are in Bold \$
21) Drawing Regional water from hydrant for purposes other than fire protection (All Users) - /cubic metre - /1000 gallons - Deposit - Administrative Charge - Minimum Charge per Month - Valve installation/removal	F5		3.80 17.29 1,800.00 132.00 1,800.00 107.00		<b>3.88</b> <b>17.64</b> <b>1,800.00</b> <b>134.77</b> <b>1,800.00</b> <b>109.25</b>
22) Repair or replacement of frozen, damaged or missing water meter - Up to a maximum size of 19mm (3/4") - Over 19mm (3/4")	F6		210.00 Actual Cost		210.00 Actual Cost
23) Thawing of service pipes	F7		No Charge		No Charge
24) Thawing of private hydrants or unmetered Fire Lines	F8		Actual Cost		Actual Cost
25) Cleaning sanitary sewer services		E3		No Charge	No Charge
26) Repair to or renewal of sanitary building sewers		E4		No Charge	No Charge
27) Supplying Statement of Account	F9	E5	35.00 for both		35.00 for both
28) Charge for Regional Solicitor providing information	F10	E6	94.00 for both		94.00 for both
29) Processing of Dishonoured Payments	F11	E7	48.00 for both		48.00 for both
30) Account Payment Transfer Fee	F12	E8	11.00 for both		11.00 for both
31) New Account & Change of Occupancy Fee	F13	E9	42.00 for both		42.00 for both
32) Charge for Late Payment of Water/Sewer Surcharge Rates	F14	E10	2%		2%
33) Lien Administration Fee	F15	E11	50.00 for both		50.00 for both
34) Installation and removal of anti-tampering devices on fire hydrants & curb stops	F16		138.00		<b>138.00</b>
35) Cross Connection Control Program Test Report	New		25.00		<b>25.00</b>
36) Water from Water Supply Plants, Water Pollution Control Plants, Works Depots & Bulk Filling Stations - /cubic metre - /1000 gallons - Service Charge \$/month - Minimum Volume Charge \$/per month - Occasional Users – Flat Rate - Account Administration Fee \$/year - New Account Fee - Key Deposit - Refundable on return of key (based on fee in year Key Deposit made) - Access card	F17		3.15 14.32 n/a 150.00 38.50 125.90 n/a 214.30 177.90 35.70		<b>3.22</b> <b>14.64</b> <b>21.00</b> <b>n/a</b> <b>n/a</b> <b>n/a</b> <b>42.00</b> <b>218.80</b> <b>181.64</b> <b>36.45</b>
37) Fire Flow tests: - Full test (May 1 – Oct 31)	F18		467.20		467.20

Schedule 4 - Recommended 2020 Miscellaneous Charges  Item Number & Description	By-Law Schedule Reference		Existing 2019 Charges		Recommended 2020 Charges
	Water By-law #89-2003	Sewer By-law #90-2003	Water \$	Sewer \$	Note: Changes are in Bold \$
- Full test (Nov 1 – Apr 30)			812.90		812.90
- Opening Hydrants (May 1 – Oct 31)			320.30		320.30
- Opening Hydrant (Nov 1 – Apr 30)			652.80		652.80
38) Sewage Surcharge and Compliance Agreements		E12		1,885.00	1,885.00
39) Disposal of Septic Tank and Holding Tank Waste and the disposal of Water Pollution Control Plant Sludge:		E2			
a) Hauled Domestic Waste					
- /cubic metre				19.56	19.56
- /1000 gallons				88.93	88.93
b) Sludge from WPCP within the Regions of York and Durham and trucked to the incineration facilities at Duffin Creek WPCP					
- /cubic metre				16.19	16.19
- /1000 gallons				73.59	73.59
c) Annual charge for registration of Haulers (up to 10 vehicles)				175.00	175.00
- Additional stickers if more than 10 vehicles, or replacement stickers – per sticker				10.20	10.20
d) ICI Sector areas (discharges up to 50,000 gallons)				522.75	522.75
e) ICI Sector areas (discharges of 50,001 to 100,000 gallons)				1,024.59	1,024.59
40) Copies of By-laws Water System, Sewer System and Sewer Use (+ Applicable taxes)	F19	E13	20.50/copy		20.50/copy
41) Sewer TV Inspection Reports and Videos per report or video (+ Applicable taxes)		E14		20.43	<b>21.51</b>
42) Sewer Use By-law Agreement extra strength waste (\$/k.g.)				0.53	0.53
43) Sewer Appeal Application per request		E15		850.00	<b>950.00</b>

## Schedule 5 - Recommended 2020 Fee Schedule for Laboratory Services at the Regional Environmental Laboratory Located at the Duffin Creek WPCP

THE REGIONAL MUNICIPALITY OF DURHAM				
2020 FEES AND CHARGES				
WORKS DEPARTMENT - ENVIRONMENTAL LABORATORY				
				2020 Changed Bold
Description		2019 Rate (before appl. Taxes)		2020 Rate (before appl. Taxes)
<b>Laboratory Fees Page 1 of 9</b>		\$		\$
<b>ONTARIO DRINKING WATER REGULATION 170/03 PACKAGES</b>				
<b>Microbiological</b>				
Presence/Absence Test (P/A for TC, EC)		\$14.30		\$14.30
Treated Water (P/A, HPC or BKD)		\$26.50		\$26.50
Well Water/Raw/Reg.319 (TC, EC)		\$27.50		\$27.50
Well Water/Treated/Distribution (TC, EC, HPC)		\$37.70		\$37.70
Single test by membrane filtration (e.g. MFHPC, MFTC)		\$13.30		\$13.30
Test for E. coli by membrane filtration		\$14.30		\$14.30
<b>Inorganic Chemical</b>				
<b>All Parameters required under O.Reg. 170/03 Schedule 23 plus additional metals</b>		\$80.60		\$80.60
(Al, As, B, Ba, Cd, Co, Cr, Cu, Fe, Hg, Mn, Mo, Ni, Pb, Sb, Se, U, Zn)				
<b>Inorganic Ions required under O.Regulation 170/03</b>		\$79.60		\$79.60
(F, NO <sub>2</sub> , NO <sub>3</sub> , Na)				
<b>Inorganic Ions required under O.Reg. 170/03 plus additional Ions</b>		\$79.60		\$79.60
(Hardness*, Ca, Mg, Na, K, Ammonia, F, Cl, Br, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub> )				
(Nitrite, Nitrate)		\$52.00		\$52.00
(Sodium)		\$34.70		\$34.70
(Fluoride)		\$34.70		\$34.70
(Lead testing as required under O.Regulation 170)		\$35.70		\$35.70
(Lead testing as required under O.Regulation 243) - For Standing & Flushed		\$150.00		\$150.00
<b>Organic Chemical</b>				
<b>THMs (Trihalomethanes)</b>		\$102.00		\$102.00
bromodichloromethane	bromoform			
dibromochloromethane	chloroform			
THM (Total)				
<b>All Parameters required under Schedule 24</b>		\$1,264.80		\$1,400.00
(Includes all Parameters described under the following test CODES listed in this book - VOC, OC, TRIAZ, OP, PHENAC, CHLORPHEN, CARBUREA, GLYPH, DIPARA, PCB)				
<b>Combined Packages</b>				
<b>York Region Drinking Water Package A</b>		\$1,285.20		\$1,285.20
(Includes DW2M (less TURB), Hg, B, Ba, U, VOC, OC, TRIAZ, OP, PHENAC, CHLORPHEN, CARBUREA, GLYPH, DIPARA, PCB)				
*Calculation included (no charge).				

<b>THE REGIONAL MUNICIPALITY OF DURHAM</b>			
<b>2020 FEES AND CHARGES</b>			
<b>WORKS DEPARTMENT - ENVIRONMENTAL LABORATORY</b>			
		<b>2020 Changed Bold</b>	
Description	2019 Rate (before appl. Taxes)	2020 Rate (before appl. Taxes)	
<b>Laboratory Fees Page 2 of 9</b>		<b>\$</b>	<b>\$</b>
<b>MICROBIOLOGICAL TESTS</b>			
<b>O.Regulation 170/03</b>			
Presence/Absence Test (P/A for TC, EC)	\$14.30	\$14.30	
Treated Water (P/A, HPC or BKD)	\$26.50	\$26.50	
Well Water/Raw/Reg.319 (TC, EC)	\$27.50	\$27.50	
Well Water/Treated/Distribution (TC, EC, HPC)	\$37.70	\$37.70	
Raw Water Intake, Municipal (TC, EC, BKD)	\$32.60	\$32.60	
Treated/Distribution Water (TC, EC, BKD, HPC)	\$42.80	\$42.80	
Single test by membrane filtration (e.g. MFHPC, MFTC)	\$13.30	\$13.30	
Test for E. coli by membrane filtration	\$14.30	\$14.30	
<b>New Mains</b>			
New Water Mains (TC, EC, BKD, HPC)	\$42.80	\$42.80	
<b>Waste Water</b>			
E.coli (Final Effluent)	\$16.30	\$16.30	
E.coli (Sludge / Cake)	\$30.60	\$30.60	
Final Effluent (TC, EC)	\$30.60	\$30.60	
Final Effluent (TC, EC, FS)	\$40.80	\$40.80	
Microscopic Examination	\$100.00	\$100.00	
<b>Recreational Water</b>			
E.coli (Lake/Beach/Creek/Pond/River)	\$14.30	\$14.30	
Lakes / Bathing beaches (TC, EC, FS)	\$37.70	\$37.70	
Any Single Membrane Filtration Test (eg. FC - MFFC, AE - MFAE, PS, SA etc.)	\$25.50	\$25.50	
<b>Raw and Treated Water</b>			
Algae Enumeration and Identification	\$100.00	\$100.00	
Algae by Microscopic Particulate Analysis	\$500.00	\$500.00	
Microcystin	\$153.00	\$153.00	
F Specific Coliphages	\$200.00	\$200.00	
<b>Mycology (Fungi)</b>			
Fungal Enumeration	\$25.00	\$25.00	
Fungal Identification (Consultation Required)	\$130.00	\$130.00	
Air Quality (Microbial - Bacteria, Yeasts & Molds)	\$75.00	\$75.00	
Enumeration of Bacteria, Yeast and Molds by RODAC plates (BHI & SAB/MEA)	\$75.00	\$75.00	
<b>Protozoa Testing</b>			
Cryptosporidium and Giardia (MBCG)	\$816.00	\$816.00	
Cryptosporidium, Giardia and Microscopic Particulate Analysis (MBCGMPA)	\$1,100.00	\$1,100.00	
Pigment Bearing Algae and Diatoms (MBPBAD)	\$500.00	\$500.00	
Cryptosporidium, Giardia and Pigment Bearing Algae and Diatoms (MBCGPBAD)	\$1,100.00	\$1,100.00	
<b>Sterility (Spore) Testing</b>			
Bacillus subtilis (DRY)	\$50.00	\$50.00	
Bacillus stearothermophilus (STEAM)	\$50.00	\$50.00	
<b>Other Bacteriological Groups</b>			
Private Wells (TC, EC)(Signed Report faxed next day)	\$76.50	\$76.50	
Iron Bacteria - Presence/Absence	\$75.00	\$75.00	
Sulphur Bacteria - Presence/Absence	\$75.00	\$75.00	
Iron & Sulphur Bacteria - Presence/Absence	\$125.00	\$125.00	
Enumeration for (TC, EC, FC, HPC, BKD, PS, AE or FS) per parameter	\$51.00	\$51.00	

<b>THE REGIONAL MUNICIPALITY OF DURHAM</b>				
<b>2020 FEES AND CHARGES</b>				
<b>WORKS DEPARTMENT - ENVIRONMENTAL LABORATORY</b>				
Description	2019 Rate (before appl. Taxes)		2020 Rate (before appl. Taxes)	
	\$ Water	\$ S/S/S	\$ Water	\$ S/S/S
<b>Laboratory Fees Page 3 of 9</b>				
<b>GENERAL INORGANIC TESTS</b>				
pH, Conductivity, Alkalinity Total (CaCO3)	\$27.50	\$32.60	\$27.50	\$32.60
Alkalinity, Total (CaCO3)	\$16.30	\$21.40	\$16.30	\$21.40
Alkalinity, Total (CaCO3) (plus hydroxide, carbonate and bicarbonate)		New test	<b>\$20.00</b>	<b>\$26.00</b>
Conductivity	\$11.20	\$16.30	\$11.20	\$16.30
pH	\$11.20	\$16.30	\$11.20	\$16.30
Fluoride by Ion Selective Electrode	\$21.40	\$27.50	\$21.40	\$27.50
Total Residual Chlorine	\$11.20	\$19.40	\$11.20	\$19.40
Free Residual Chlorine	\$11.20	\$19.40	\$11.20	\$19.40
Colour	\$16.30	\$19.40	\$16.30	\$19.40
Turbidity	\$16.30	\$19.40	\$16.30	\$19.40
Biochemical Oxygen Demand (BOD5)	\$35.70	\$42.80	\$35.70	\$42.80
Carbonaceous Biochemical Oxygen Demand (cBOD5)	\$35.70	\$42.80	\$35.70	\$42.80
Chemical Oxygen Demand (COD)	\$31.60	\$37.70	\$31.60	\$37.70
Dissolved Organic Carbon (DOC)	\$29.60	\$37.70	\$29.60	\$37.70
Cyanide (Total)	\$40.80	\$47.90	\$40.80	\$47.90
Cyanide (Free)	\$40.80	\$47.90	\$40.80	\$47.90
Phenol	\$37.70	\$45.90	\$37.70	\$45.90
Sulphide (S2-)	\$37.70	\$45.90	\$37.70	\$45.90
Dissolved Solids, Fixed Dissolved Solids, Volatile Dissolved Solids*	\$26.50	\$29.60	\$26.50	N/A
Total Suspended Solids (SS)	\$15.30	\$17.30	\$15.30	\$17.30
Total Suspended Solids, Fixed Suspended Solids, Volatile Suspended Solids*	\$21.40	\$24.50	\$21.40	\$24.50
Total Solids (TS)	\$13.30	\$15.30	\$13.30	\$15.30
Total Solids, Fixed Total Solids, Volatile Total Solids*	\$19.40	\$21.40	\$19.40	\$21.40
Total Dissolved Solids, Total Suspended Solids, Total Solids	\$35.70	\$42.80	\$35.70	\$42.80
Total Oil & Grease	\$53.00	\$63.20	\$53.00	\$63.20
Total / Mineral / Animal & Vegetable* Oil & Grease	\$80.60	\$96.90	\$80.60	\$96.90
Volatile Acids	\$30.60	\$30.60	\$30.60	\$30.60
S/S/S = Sewage, Sludge and Soil				
*Calculation included (no charge).				

<b>THE REGIONAL MUNICIPALITY OF DURHAM</b>				
<b>2020 FEES AND CHARGES</b>				
<b>WORKS DEPARTMENT - ENVIRONMENTAL LABORATORY</b>				
Description	2019 Rate (before appl. Taxes)		2020 Rate (before appl. Taxes)	
	\$ Water	\$ S/S/S	\$ Water	\$ S/S/S
<b>Laboratory Fees Page 4 of 9</b>				
<b>GENERAL INORGANIC TESTS</b>				
<b>Ion Chromatography</b>				
Hardness*, Ca, Mg, Na, K, Ammonia, F, Cl, Br, NO2, NO3, PO4, SO4	\$79.60	\$95.90	\$79.60	\$95.90
F, Cl, Br, NO2, NO3, PO4, SO4	\$52.00	\$62.20	\$52.00	\$62.20
Hardness*, Ca, Mg, Na, K, Ammonia	\$52.00	\$62.20	\$52.00	\$62.20
Any One of the Above Single Elements by IC	\$34.70	\$40.80	\$34.70	\$40.80
<b>Nutrients by Segmented Flow Analyzer</b>				
NH3+NH4, PO4, NO2, NO2+NO3, TKN, TP	\$98.90	\$118.30	\$98.90	\$118.30
NH3+NH4, PO4, NO2, NO2+NO3	\$59.20	\$70.40	\$59.20	\$70.40
TKN, TP	\$59.20	\$70.40	\$59.20	\$70.40
Any One of the Above Single Nutrients by SFA	\$38.80	\$46.90	\$38.80	\$46.90
<b>Ultra Low Dissolved PO4 (clean water only)</b>	\$66.30	N/A	\$66.30	N/A
<b>Metals</b>				
Mercury (Hg) by Cold Vapour AA	\$35.70	\$42.80	\$35.70	\$42.80
Acid Soluble Metals by ICP (Al, Fe, Mn, Pb, Zn)	\$40.80	N/A	\$40.80	N/A
Cation Scan by ICP (B, Ba, Be, Ca, K, Li, Mg, Na, SiO3, Sr, U)	\$40.80	N/A	\$40.80	N/A
Heavy Metals Scan by ICP: Al, As, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Se, Sb, Zn	\$54.10	\$64.30	\$54.10	\$64.30
Heavy Metals Scan by ICP: As, Cd, Co, Cr, Cu, Mo, Ni, Pb, Se, Zn	N/A	\$64.30	N/A	\$64.30
Regulation 170 Metals: Al, As, B, Ba, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, U, Zn	\$76.50	N/A	\$76.50	N/A
Any One of the Above Single Metals by ICP-OES or ICP-MS	\$35.70	\$42.80	\$35.70	\$42.80
(Lead testing as required under O.Regulation 170)	\$35.70	N/A	\$35.70	N/A
(Lead testing as required under O.Regulation 243)	\$75.00	N/A	\$75.00	N/A
Other elements such as (Ag, Ti, V, Tl, etc.) are available as single element requests.				
S/S/S = Sewage, Sludge and Soil				
* = Calculation Included (no charge)				

<b>THE REGIONAL MUNICIPALITY OF DURHAM</b>			
<b>2020 FEES AND CHARGES</b>			
<b>WORKS DEPARTMENT - ENVIRONMENTAL LABORATORY</b>			
Description	2020 Changed Bold		
	2019 Rate (before appl. Taxes)	2020 Rate (before appl. Taxes)	
<b>Laboratory Fees Page 5 of 9</b>	\$	\$	
<b><u>INORGANIC MONITORING PACKAGES</u></b>			
<b><u>Drinking Water</u></b>			
<b>Drinking Water Package #1</b>	\$96.90	\$96.90	
(pH, conductivity, alkalinity, chloride, fluoride, bromide, nitrite, nitrate, phosphate, sulphate, calcium, magnesium, sodium, potassium, ammonia, hardness*, ionic balance*, total anions*, total cations*, calculated dissolved solids*, calculated conductivity*, langelier index*)			
<b>Drinking Water Package #2</b>	\$149.90	\$149.90	
(colour, turbidity, Al, Fe, Mn, Pb, Zn) (pH, conductivity, alkalinity, chloride, fluoride, bromide, nitrite, nitrate, phosphate, sulphate, calcium, magnesium, sodium, potassium, ammonia, hardness*, ionic balance*, total anions*, total cations*, calculated dissolved solids*, calculated conductivity*, langelier index*)			
<b>Drinking Water Package #2 with expanded metals</b>	\$174.40	\$174.40	
(colour, turbidity, Al, As, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Zn) (pH, conductivity, alkalinity, chloride, fluoride, bromide, nitrite, nitrate, phosphate, sulphate, calcium, magnesium, sodium, potassium, ammonia, hardness*, ionic balance*, total anions*, total cations*, calculated dissolved solids*, calculated conductivity*, langelier index*)			
<b>Drinking Water Package #3</b>	\$262.20	\$262.20	
Colour, (Al, Sb, As, Ba, B, Cd, Cr, Co, Cu, Fe, Pb, Mn, Mo, Ni, Se, U, Zn), Hg pH, Conductivity, Alkalinity, (Ca, Mg, K, Na, NH3, Hardness*) (Br, Cl, F, NO2, NO3, [NO2+NO3]*, SO4, PO4), DOC, TKN			
<b><u>Landfill Monitoring</u></b>			
<b>Surface Water</b>	\$370.30	\$370.30	
(BOD, COD, colour, phenol, total solids, suspended solids, dissolved solids*, pH, conductivity, alkalinity, fluoride, chloride, bromide, nitrite, nitrate, sulphate, phosphate, calcium, magnesium, sodium, potassium, ammonia, hardness*, total cations*, total anions*, ionic balance*, calculated dissolved solids*, calculated conductivity*, langelier index*, dissolved organic carbon, total kjeldahl nitrogen, total phosphorus, Al, As, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Zn)			
(Filtration of Raw Landfill samples)	\$35.70	\$35.70	
*Calculation included (no charge).			

<b>THE REGIONAL MUNICIPALITY OF DURHAM</b>			
<b>2020 FEES AND CHARGES</b>			
<b>WORKS DEPARTMENT - ENVIRONMENTAL LABORATORY</b>			
Description	2019 Rate		2020 Changed Bold
	(before appl. Taxes)		2020 Rate (before appl. Taxes)
<b>Laboratory Fees Page 6 of 9</b>	\$		\$
<b><u>INORGANIC MONITORING PACKAGES</u></b>			
<b><u>Sewer Use By-law</u></b>			
<b>Complete Inorganic Package</b> sulphate, phenol, cyanide, Total/Mineral/Animal & Vegetable Oil & Grease Hg, Ag, Al, As, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Sn, Ti, Zn	\$475.00		\$475.00
<b><u>Sewage and Industrial Waste</u></b>			
<b>Monitoring Package #1</b> (BOD5, suspended solids)	\$42.80		\$42.80
<b>Monitoring Package #2</b> (BOD5, susp. solids, total kjeldahl nitrogen, total phosphorus)	\$100.00		\$100.00
<b>Monitoring Package #2 plus Metals</b> (BOD5, susp. solids, total kjeldahl nitrogen, total phosphorus Al, As, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Zn)	\$161.20		\$161.20
<b>Monitoring Package #3</b> (BOD5, susp. solids, total kjeldahl nitrogen, total phosphorus ammonia+ammonium, nitrite, nitrite+nitrate, diss. phosphate)	\$149.90		\$149.90
<b>Monitoring Package #3 plus Metals</b> (BOD5, susp. solids, total kjeldahl nitrogen, total phosphorus ammonia+ammonium, nitrite, nitrite+nitrate, diss. phosphate Al, As, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Zn)	\$211.10		\$211.10
<b>Monitoring Package #4</b> (BOD5, CBOD5, susp. solids, total kjeldahl nitrogen, total phosphorus ammonia+ammonium, nitrite, nitrite+nitrate, diss. phosphate, pH Al, As, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Zn)	\$197.90		\$197.90
<b>Monitoring Package #4 plus Metals</b> (BOD5, CBOD5, susp. solids, total kjeldahl nitrogen, total phosphorus ammonia+ammonium, nitrite, nitrite+nitrate, diss. phosphate, pH Al, As, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Se, Zn)	\$262.10		\$262.10
<b><u>Sludge</u></b>			
<b>Sludge Monitoring Package #1</b> (total solids, total kjeldahl nitrogen, total phosphorus, ammonia+ammonium, nitrite, nitrite+nitrate, diss. phosphate)	\$116.30		\$116.30
<b>Sludge Monitoring Package #1 plus Metals</b> (total solids, total kjeldahl nitrogen, total phosphorus, ammonia+ammonium, nitrite, nitrite+nitrate, diss. phosphate Hg, As, Cd, Co, Cr, Cu, Mo, Ni, Pb, Se, Zn)	\$177.50		\$177.50
<b>Sludge Monitoring Package #2 (Agrisludge)</b> (total solids, ashed total solids, volatile total solids*, total kjeldahl nitrogen, total phosphorus, ammonia+ammonium nitrite + nitrate, Hg, As, Cd, Co, Cr, Cu, K, Mo, Ni, Pb, Se, Zn)	\$204.00		\$204.00
*Calculation included (no charge).			



<b>THE REGIONAL MUNICIPALITY OF DURHAM</b>			
<b>2020 FEES AND CHARGES</b>			
<b>WORKS DEPARTMENT - ENVIRONMENTAL LABORATORY</b>			
		<b>2020 Changed Bold</b>	
Description		<b>2019 Rate (before appl. Taxes)</b>	<b>2020 Rate (before appl. Taxes)</b>
<b>Laboratory Fees Page 7 of 9</b>		<b>\$</b>	<b>\$</b>
<b>ORGANIC MONITORING PACKAGES</b>			
<b>Drinking / Surface / Ground Water and Wastewater</b>			
<b>THMs (Trihalomethanes)</b>			
bromodichloromethane	bromoform	\$102.00	\$102.00
dibromochloromethane	chloroform		
THM (Total)			
<b>BTEX by Purge &amp; Trap GC/MS</b>			
benzene	ethylbenzene	\$80.60	\$80.60
m,p-xylene	o-xylene		
toluene	Xylene (Total)		
<b>Taste &amp; Odour</b>			
geosmin	2-methylisoborneol (MIB)	\$250.00	\$250.00
2-isobutyl-3-methoxypyrazine	2-isopropyl-3-methoxypyrazine		
2,3,6-trichloroanisole	2,4,6-trichloroanisole		
<b>Haloacetic Acids (Disinfection By-Products)</b>			
bromochloroacetic acid	dibromoacetic acid	\$198.90	<b>\$300.00</b>
dichloroacetic acid	monobromoacetic acid		
monochloroacetic acid	trichloroacetic acid		
<b>Volatile Organic Compounds</b>			
benzene	cis-1,2-dichloroethylene	\$128.50	\$128.50
bromodichloromethane	trans-1,2-dichloroethylene		
bromoform	dichloromethane		
bromomethane	1,2-dichloropropane		
carbon tetrachloride	cis-1,3-dichloropropylene		
chlorobenzene	trans-1,3-dichloropropylene		
chlorodibromomethane	ethylbenzene		
chloroethane	styrene		
chloroform	1,1,2,2-tetrachloroethane		
chloromethane	toluene		
tetrachloroethylene (perchloroethylene)	1,1,1-trichloroethane		
1,2-dibromoethane(ethylene dibromide)	1,1,2-trichloroethane		
1,2-dichlorobenzene	trichloroethylene		
1,3-dichlorobenzene	trichlorofluoromethane		
1,4-dichlorobenzene	vinyl chloride		
1,1-dichloroethane	o-xylene		
1,2-dichloroethane	m,p-xylene		
1,1-dichloroethylene	THM (Total)		
methyl tert-butyl ether (MTBE)	xylene (Total)		
<b>methyl ethyl ketone (MEK)</b>	<b>2-hexanone</b>		
<b>methyl isobutyl ketone (MIBK)</b>	<b>acetone</b>		
<b>1,1,1,2-tetrachloroethane</b>	<b>1,2,4-trichlorobenzene</b>		
<b>Pesticide/Herbicide Analysis</b>			
<b>Organochlorine Pesticides</b>			
aldrin	endosulphan I	\$123.40	\$123.40
a-BHC	endosulphan II		
b-BHC	endosulphan sulphate		
g-BHC (Lindane)	endrin		
a-chlordane	heptachlor		
g-chlordane	heptachlor epoxide		
p,p'-DDD	methoxychlor		
p,p'-DDE	mirex		
p,p'-DDT	oxychlordane		
o,p'-DDT	trifluralin		
dieldrin	toxaphene		

<b>THE REGIONAL MUNICIPALITY OF DURHAM</b>			
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		<b>2020 Changed Bold</b>	
Description		<b>2019 Rate (before appl. Taxes)</b>	<b>2020 Rate (before appl. Taxes)</b>
<b>Laboratory Fees Page 8 of 9</b>		<b>\$</b>	<b>\$</b>
<b>ORGANIC MONITORING PACKAGES</b>			
<b>Pesticide/Herbicide Analysis</b>			
<b>Triazine Herbicides</b>			
alachlor (Lasso)	metolachlor	\$107.10	\$107.10
ametryn	metribuzin (Sencor)		
atraton	prometon		
atrazine	prometryn		
cyanazine (Bladex)	propazine		
desethyl atrazine	simazine		
<b>Organophosphorus Pesticides</b>			
chlorpyrifos (Dursban)	malathion	\$107.10	\$107.10
chlorpyrifos-methyl (Reldan)	methyl parathion		
diazinon	mevinphos (Phosdrin)		
dichlorvos	parathion		
dimethoate	phorate (Thimet)		
ethion			
fenchlorphos (Ronnel)	terbufos		
guthion (Azinphos-methyl)			
benzo(a)pyrene			
<b>Phenoxy Acid Herbicides</b>			
2,4-dichlorophenoxyacetic acid (2,4-D)	MCPA	\$161.20	\$161.20
bromoxynil			
dicamba	picloram		
diclofop-methyl			
<b>Chlorophenols</b>			
2,4-dichlorophenol	2,3,4,6-tetrachlorophenol	\$161.20	\$161.20
2,4,6-trichlorophenol			
<b>Carbamate &amp; Phenyl Urea Pesticides/Herbicides</b>			
Carbaryl	Carbofuran	\$239.70	\$239.70
Diuron	Triallate		
Glyphosate		\$198.90	\$198.90
Diquat	Paraquat	\$198.90	\$198.90
<b>PCB Analysis</b>			
Polychlorinated Biphenyls		\$80.60	\$80.60
<b>PAHs (Polynuclear Aromatic Hydrocarbons) by GC/MSD</b>		\$229.50	<b>Subcontractor's Rate</b>
<b>Open Characterization (Semi-quantitative)</b>			
Volatiles (Scans for Volatile Organic Compounds)		\$250.00	\$250.00
Extractables (Scans for Extractable Organic Compounds)		\$300.00	\$300.00

<b>THE REGIONAL MUNICIPALITY OF DURHAM</b>			
<b>2020 FEES AND CHARGES</b>			
<b>WORKS DEPARTMENT - ENVIRONMENTAL LABORATORY</b>			
		<b>2020 Changed Bold</b>	
Description		<b>2019 Rate (before appl. Taxes)</b>	<b>2020 Rate (before appl. Taxes)</b>
<b>Laboratory Fees Page 9 of 9</b>		<b>\$</b>	<b>\$</b>
<b>ORGANIC MONITORING PACKAGES</b>			
<b>Industrial Sewer Use By-law Acid/Base/Neutral Compounds</b>			
di-n-butylphthalate	bis(2-ethylhexyl)phthalate	\$214.20	\$214.20
Polychlorinated Biphenyls		\$80.60	\$80.60
<b>Industrial Sewer Use By-law Volatile Organic Compounds</b>		\$134.60	\$134.60
1,1,2,2,-tetrachloroethane	m/p-xylene		
1,2-dichlorobenzene	o-xylene		
1,4-dichlorobenzene	styrene		
benzene	tetrachloroethylene		
chloroform	toluene		
cis-1,2-dichloroethylene	trans-1,3-dichloropropylene		
dichloromethane	trichloroethylene		
ethylbenzene	xylene (Total)		
methyl ethyl ketone (MEK)			
<b>Industrial Sewer Use By-law Nonylphenols &amp; Ethoxylates (Subcontracted)</b>		Subcontractor's Rate	Subcontractor's Rate
nonylphenol	nonylphenol ethoxylates		
<b>Durham/York/Peel Sewer Use By-law Organic Package*</b>		\$727.50	\$727.50
1,1,2,2,-tetrachloroethane	m/p-xylene		
1,2-dichlorobenzene	o-xylene		
1,4-dichlorobenzene	styrene		
benzene	tetrachloroethylene		
chloroform	toluene		
cis-1,2-dichloroethylene	trans-1,3-dichloropropylene		
dichloromethane	trichloroethylene		
ethylbenzene	xylene (Total)		
methyl ethyl ketone (MEK)			
di-n-butyl phthalate	bis (2-ethylhexyl) phthalate		
PCB (Total)			
* If nonyl phenol/nonyl phenol ethoxylates req'd, please request as add-on to package			
<b>Total Petroleum Hydrocarbons (TPH) in Water (Subcontracted)</b>		Subcontractor's Rate	Subcontractor's Rate
This CCME method includes:			
a). BTEX-Purgeables by P&T GC/MS or HS GC/FID - gasoline range			
b). Extractables by GC/FID - diesel range			
c). Total Oil & Grease by Gravimetric - heavy oil range			
<b>Legal Sample Fees and Legal Storage Fees</b>			
Samples submitted under legal chain of custody	per sample	\$255.00	\$255.00
(To maintain an unbroken chain of custody for samples that may be used for litigation)			
Extended storage for legal samples (longer than 30 days)	per container per month	\$3.10	\$3.10
(Samples will be stored free of charge for 30 days from the date of final report)			
Court testimony by Regional Environmental Laboratory staff	per hour (including travel and wait time)	To be determined case-by-case	To be determined case-by-case
Mileage for appearance	per kilometre (actual)	\$0.55	\$0.55
<b>Miscellaneous</b>			
Sub-contractor Fee			<b>Subcontractor's Rate</b>
Report re-issue Fee:			
- Current Year			<b>\$10.00</b>
- Previous 2 years			<b>\$25.00</b>
- Prior Archives			<b>\$100.00</b>
<b>Sample treatment (if required):</b>			
Chlorine quenching			<b>\$25.00</b>
Oil & Grease additional extraction			<b>\$25.00</b>
Crypto/Giardia Additional Filter Processing			<b>\$400.00</b>
Shipping (Sample Containers)			<b>Actual cost</b>