2020 User Rate

Water Services

Working together to provide safe drinking water and effective wastewater treatment

Water Services

- Water Supply Operations
- Hydrogeology and Source Protection
- Engineering and Planning
- Wastewater Treatment Operations
- Environmental Enforcement and Laboratory Services
- Water Efficiency
- Finance and Administrative Services
Water Supply

- 53 million m³ per year
- Supply 7 area municipalities, retail in North Dumfries & Wellesley
- Over 100 supply wells & 1 surface water plant

Water Budget

2020 Operating Expenditures: $34 Million

- Reserve Admin & GRCA 25%
- Staff 29%
- Utilities (Electricity, Natural Gas, Fuel) 20%
- Other Expenses (Chemicals & Maintenance) 26%

Maintain a Stable Operating Budget
Water Production
Annual Flow Budget vs. Actual

Water Budget

2020 - 2029 Capital Program: $504M

Projects include:
- Asset Management $193M
  - SCADA Upgrades ($26M)
  - Projects for Infrastructure Renewal ($136M)
- Upgrades/Expansions/New Facilities $195M
  - Elmira & St. Jacobs Water Supply Optimization ($7.8M)
  - Cambridge Distribution Upgrades ($59M)
  - William St. & Strange St. Upgrades ($24.5M)
Budget Efficiencies

Efficiencies in Operations-Savings $0.6M

Hydro

Hydro Reductions
- Participate in incentive program
- Right size equipment

Optimizing Process
- Combining water systems
- Mainehm WTP improvements
- Update hardware and software on system
- High performance SCADA screens

Electricity Cost ($)

Electricity Consumption (kWh)

Annual Electricity Consumption & Cost

<table>
<thead>
<tr>
<th>Year</th>
<th>kWh</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>44,074,930</td>
<td>$6,798,298</td>
</tr>
<tr>
<td>2016</td>
<td>43,026,779</td>
<td>$7,594,534</td>
</tr>
<tr>
<td>2017</td>
<td>40,782,641</td>
<td>$6,791,414</td>
</tr>
<tr>
<td>2018</td>
<td>41,512,065</td>
<td>$6,239,899</td>
</tr>
<tr>
<td>2019</td>
<td>41,458,910</td>
<td>$6,100,000</td>
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</tbody>
</table>
Program Initiatives

**Regulatory Compliance**

- Comply with Ontario Drinking Water Standards

**Source Protection**

- Implement Source Protection Program
- Salt Awareness Programs

**Asset Management**

- Capital Optimization Program
- Integrate new PowerPlan software

Water - Innovation

**Combining systems Strange Street & William Street**

Optimizing treatment with improved controls

Protecting groundwater through education programs
Wastewater Treatment

- 60 m³ per year
- Treatment for 7 area municipalities, & retail in North Dumfries & Wellesley
- 13 Wastewater Treatment plants

Wastewater Treated

Budget vs. Actual

Cubic Metres (in millions)
Wastewater Budget

2020 Operating Expenditures: $45 Million

- Staff: 15%
- Utilities: 17%
- Operating Contract - OCWA: 26%
- Other Expenses (Biosolids): 16%
- Reserve Admin & GRCA: 26%

Impact of New Infrastructure

Wastewater Budget

2020 -2029 Capital Program: $493 Million

Major Treatment Upgrades:
- Kitchener WWTP ($73M)
- Hespeler WWTP ($22M)
- Galt WWTP ($73M)
- St. Jacobs WWTP ($3M)

Growth Related:
- Baden-New Hamburg WWTP ($10M)
- Waterloo WWTP ($31M)
Budget Efficiencies

Hydro Savings
- Conservation Initiatives

Optimize Service
- Implement New OCWA Contract

Biosolids Optimization
- Optimize Process to Improve Quality & Increase Reuse

Efficiencies in Operations - Savings $1M
Program Initiatives

- **Regulatory Compliance**
  - Comply with MECP & Federal Legislation

- **Asset Management**
  - Capital Optimization
  - Integrate using PowerPlan

- **Wastewater Treatment**
  - Optimize treatment & continue with Rural Water Quality to improve river water quality

Wastewater - Innovation

- Increasing capacity without infrastructure
- St. Jacobs WWTP

- GMF Approved for Hespeler WWTP MABR

- Cogeneration to reduce greenhouse gas and hydro
### Wholesale User Rate

#### Background

<table>
<thead>
<tr>
<th>Year</th>
<th>Water % Rate</th>
<th>Wastewater % Rate</th>
<th>Total Household Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>1.9% $1.0446</td>
<td>7.9% $1.1750</td>
<td>$452</td>
</tr>
<tr>
<td>2019</td>
<td>2.9% $1.0749</td>
<td>6.9% $1.2561</td>
<td>$475</td>
</tr>
<tr>
<td>2020</td>
<td>1.9% $1.0953</td>
<td>3.9% $1.3051</td>
<td>$489</td>
</tr>
</tbody>
</table>

#### Recommended Wholesale User Rate

- **Water**
  - 1.9%
  - $1.095/m³
  - Annual Cost $223

- **Wastewater**
  - 3.9%
  - $1.305/m³
  - Annual Cost $266

**Annual Household Cost is $489 Based on 204 m³ of Consumption**
Retail User Rate

**Background**

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water % Rate</td>
<td>7.9 %</td>
<td>4.9%</td>
</tr>
<tr>
<td></td>
<td>$2.99 + $10/monthly</td>
<td>$3.14 + $10/monthly</td>
</tr>
<tr>
<td>Wastewater % Rate</td>
<td>4.9%</td>
<td>3.9%</td>
</tr>
<tr>
<td></td>
<td>$2.23 + $8/monthly</td>
<td>$2.32 + $8/monthly</td>
</tr>
<tr>
<td>Total Household Cost</td>
<td>$1281</td>
<td>$1330</td>
</tr>
</tbody>
</table>

**Recommended Retail User Rate**

- Water $3.14/m³ ($10/monthly)
- Wastewater $2.32/m³ ($8/monthly)

- Based on consumption of 204 m³ the cost is $761 for water & $569 for wastewater
- Less than a penny
- For $1 you can refill a 500 ml bottle 548 times

- Annual household cost?
- What is the cost to fill your water bottle?