#### EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015

Item 2, Report No. 6, of the Finance, Administration and Audit Committee, which was adopted without amendment by the Council of the City of Vaughan on March 24, 2015.

#### 2 2015 DRAFT WATER AND WASTEWATER/STORMWATER OPERATING BUDGETS AND THE 2016-2018 PLAN

The Finance, Administration and Audit Committee recommends approval of the recommendation contained in the following report of the Commissioner of Finance & City Treasurer, the Commissioner of Public Works, the Director of Environmental Services and the Director of Financial Services and Deputy Treasurer, dated March 2, 2015:

#### Recommendation

The Commissioner of Finance & City Treasurer, the Commissioner of Public Works, the Director of Environmental Services and the Director of Financial Services and Deputy Treasurer recommend:

- 1. That the draft 2015 budget including rate increases for Water and Wastewater reflecting the Regional Rate increase, City operating and City capital requirements be considered as follows:
  - (a) That the City's water rate be increased from \$1.4075 to \$1.4780 per cubic meter effective after Council approval;
  - (b) That the City's wastewater rate be increased from \$1.6781 to \$1.9130 per cubic meter effective after Council approval;
- 2. That the Additional Resource Request (ARR) Staffing Requests to support the water and wastewater field staff as outlined in Attachment 2 be considered;
- 3. That the service charges for water and wastewater as outlined in Attachment 7 be considered;
- 4. That any necessary By-laws to give effect to the water and wastewater rates and service charges be implemented in the billing cycle after budget approval;
- 5. That should Committee endorse recommendations 1, 2, 3 and 4, the City Clerk be directed to schedule a Special Council evening meeting, advertised in advance and consistent with the City's public notification by-law to consider approval of the proposed 2015 Water and Wastewater Budget and 2016-2018 Plan and related matters; and
- 6. That a consolidated item on the proposed 2015 Water and Wastewater Budget and 2016-2018 Plan be submitted to a Special Council meeting, incorporating any further adjustments and/or direction provided by the Finance, Administration and Audit Committee.

#### Contribution to Sustainability

Safe drinking water, effective wastewater collection and stormwater management are cornerstones of a sustainable and healthy community.

The draft 2015 water and wastewater/stormwater budgets and rates provide funds to support the City's water, wastewater and stormwater systems by moving towards financial sustainability in accordance with the Safe Drinking Water Act and the Sustainable Water and Sewage Systems Act.

#### EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015

#### Item 2, Finance Report No. 6 – Page 2

Continued infrastructure renewal investment is critical to ensure water and wastewater systems are sustainable in the future. This objective is supported by continuing to build City reserves.

#### Economic Impact

The City's draft 2015 water and wastewater combined rate will be the lowest in the Region of York.

For 2015, the draft combined rate increase for Water and Wastewater/Stormwater is \$0.3053 per cubic meter or 9.9%. This results in a new rate of \$3.391 per cubic meter. The Region's share of the rate is 64.2% versus 35.8% for the City.

Combined Draft Rate Increase						
	% of Rate					
	% of Rate Increase					
Region	64.2%	6.4%				
City	35.8%	3.5%				
Total	100%	9.9%				

For 2015, the City's share of the combined draft water/wastewater rate increase is 3.54% (or 35.8%) and the Region of York's share for water purchases and wastewater services is 6.35% (or 64.2%) resulting in a combined rate increase of 9.90%. Based on the draft rate increase for water and wastewater the impact to the ratepayer that consumes 300 cubic metres will be approximately \$91.59 or \$7.63 per month.

The budgeted rates will generate a net contribution of \$12.8 million to their respective reserves providing funds to support and move towards a financially sustainable water and wastewater system as required by the Safe Drinking Water Act (SDWA) and Sustainable Water and Sewage Systems Act.

#### **Communications Plan**

The notice for this report has been advertised using the City's 2015 Budget Communication Plan and tools, presented on January 12, 2015.

#### **Final Opportunity for Community Input**

In addition to the meeting of the Finance, Administration and Audit Committee, a Special Council Meeting will also be held before budget approval to provide the public with a final opportunity to comment on the proposed 2015 Budget and 2016-2018 Plan. This meeting is anticipated to be held in late March or early April and will be advertised in advance, consistent with the City's public notification by-law, once a date has been set.

#### Post Budget Approval Communication

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#### <u>Purpose</u>

The purpose of this report is to provide and present the 2015 Draft Water and Wastewater/Stormwater Operating Budgets, The 2016 – 2018 Plan and the corresponding draft water and wastewater billing rates to the Finance, Administration and Audit Committee for consideration.

#### EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015

#### Item 2, Finance Report No. 6 - Page 3

#### **Background – Analysis and Options**

Water, Wastewater and Stormwater are regulated services and must meet legislated requirements of the Safe Drinking Water Act and the Sustainable Water and Sewage Systems Act.

#### The Safe Drinking Water Act

The SDWA expands on existing policy and practices and introduces new regulations to protect drinking water. It includes certification of drinking water system operators and analysts and puts in place certain financial reporting requirements and the need for municipalities to develop financially sustainable water treatment and distribution systems. The Act's purpose is to protect human health through the control and regulation of drinking water systems and drinking water testing.

It should be noted that the City currently has a strong balance sheet and has a financially viable and sustainable drinking water financial plan that meets the needs of Ontario regulation 453/07 as noted in the "Six Year Water Financial Plan (2014-2019)" presented to Council on December 2, 2013.

#### The Sustainable Water and Sewage Systems Act

The Sustainable Water and Sewage Systems Act legislates municipalities to assess the costs of providing water and sewage utilities and prepare a method to finance the full cost of providing these services

# From a financial planning perspective the city must plan and budget for three separate time horizons, upcoming draft budget year, six year financial plan and a long term (multi-decade) plan

The upcoming budget year plan must cover the Region's water and wastewater service purchases, the City's operational costs and contributions to reserves. The six year financial plan is regulated by legislation and considers future operating and capital programs. The long term plan must also consider long term financial needs with respect to repairing and replacing infrastructure.

## Financial planning consists of identifying expenses, revenue and generating water and wastewater/stormwater rate.

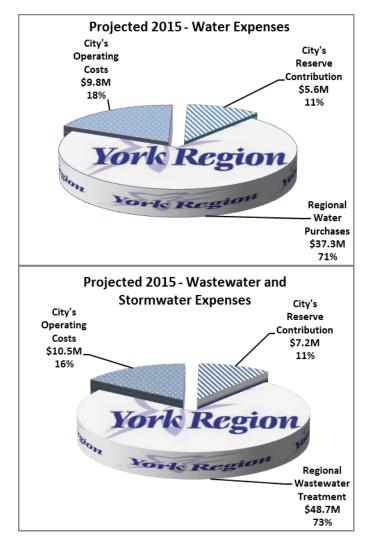
The 2015 budget was developed by identifying expenses (Region purchases, City operating costs and contributions to reserves), examining revenue (through the analysis of water consumption patterns and projected revenue associated with the sales) and rate generation. This report follows this format.

#### Water, Wastewater/Stormwater Cost Impacts

The following graphs depict the three major cost components that are explained below: the purchased cost of water from the Region, the City's operating costs and contribution to repair and replace the water and wastewater/stormwater systems.

#### EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015

Item 2, Finance Report No. 6 - Page 4



## The purchase of potable water, and wastewater services from the Region represents, by far, the largest budget expense.

#### Water

The City purchases bulk water from the Region for distribution to the City's residents and businesses. These bulk water purchase costs represent approximately 71% of the City's costs annually and therefore are a critical rate driver. The 2015 rate increase for water provided by the Region is 7.45%. The anticipated annual increase in the Region's bulk water costs for the period of 2016 to 2018 is 9% annually. The Region's forecasted rate has been incorporated into the City's forecasted rate.

Included in the bulk water purchased from the Region is the unmetered (non-revenue) water consumption. The 2015 budget for unmetered water is at 13% maintaining the same level as in the past few years. The non-revenue water (NRW) can be broken down as: apparent losses – customer meter degradation, real losses – leakage on mains, service connections, unbilled consumption – fire suppression, main flushing and maintenance, etc. To attempt to minimize NRW, the City, in partnership with York Region, will be undertaking a leak detection program. This program will help to further identify potential sources of water loss in underground infrastructure.

#### **EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015**

#### Item 2, Finance Report No. 6 – Page 5

#### Wastewater

The City pays the Region to convey and treat the City's Wastewater. These conveyance and treatment costs represent approximately 73% of the City's costs annually and therefore are a critical rate driver. The 2015 rate increase for wastewater provided by the Region is 12%. The anticipated annual increase in the Region's wastewater service costs for the period of 2016 to 2018 is 9% annually. The Region's forecasted rate has been incorporated into the City's forecasted rate.

## The City's cost for these Regional services will be subject to further adjustments arising from the Region's 2015 rate review.

The Region of York has advised the City of Vaughan that it will be conducting a rate review which will determine rates for future years. Pending the results of this rate review, the Region has supplied the City with a flat rate of 9% for both water and wastewater rates to be used in the City's forecast. The results of this study will have a substantial impact on the City's future rates and the forecasted rates in the budget are subject to change.

Taking into account the significant impact that the studies noted above will have on future rates, staff may not be able to fully assess the impacts and develop a strategy forward until at least 2016. Since the results of the studies above are not yet known, the budgets have been built based on current information.

#### Water

As mentioned previously, the Safe Drinking Water Act requires all municipalities to develop a consolidated six year financial plan which is sustainable and financially viable. The City of Vaughan ensures that we meet this obligation with each budget cycle. As more infrastructure is assumed water operating costs increase. Also, inflationary increases from existing operational contracts and agreements are factored into the budget. Increases in maintenance, administration, additional staffing resources and other expenditures reflect inflation, union agreements and changes in operational requirements. One ARR has been added to the 2015 budget: Supervisor, Water Operations will provide direction and leadership ensuring effective management of field staff and contractors.

The new 2015 operational initiatives, the contract cost increases and salary inflationary increases amount to \$247K.

#### Wastewater/Stormwater

The Wastewater/Stormwater budget is also governed by legislature – the Sustainable Water and Sewage Systems Act. The City of Vaughan is devising a method to finance the full cost of providing wastewater/stormwater services by emulating the Water six year plan.

As with water, inflationary increases from contracts and agreements, maintenance and administration were also factored into the budget. A new inspection program for storm and sanitary sewer pipes will provide condition data for asset management purposes and reduce risk. One ARR has been added to 2015: Supervisor, Wastewater/Stormwater Operations will provide direction and leadership ensuring effective management of field staff and contractors

The new 2015 operational initiatives, the contract cost increases, and salary inflationary increases amount to \$776K.

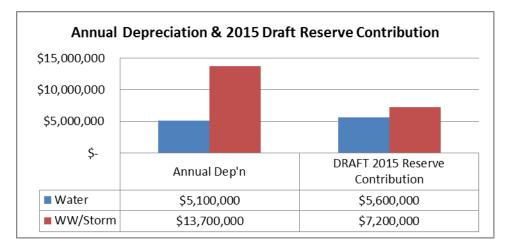
## Prudent financial planning requires ongoing contribution to Water and Wastewater Reserves to fund repair and replacement of the water and wastewater infrastructure

#### **EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015**

#### Item 2, Finance Report No. 6 - Page 6

Using annual depreciation as a basis for reserve funding is a best practice according to the National Guide to Sustainable Municipal Infrastructure. "It is best practice to use the funds generated from depreciation charges on infrastructure investments to finance past, current or future infrastructure investments."<sup>1</sup>

The following table illustrates annual depreciation of water and wastewater assets.



#### Water

The City of Vaughan has invested \$420 million (replacement value, Corporate Asset Management Strategy, 2014) into its water infrastructure. The water infrastructure is depreciating by \$5.1 million per year. To cover the annual depreciation, the City needs to continue to contribute at least \$5.1 million to the water reserves. The 2015 budget contributes \$5.6 million to the reserves in 2015. This will not only cover the annual depreciation but start to address future capital needs.

To meet the requirements of the Safe Drinking Water Act, the forecasted six year financial plan has also been addressed through the forecasted 2016 to 2018 water rates (four year plan, as required by the 2015 budget process). The forecasted 2016 to 2018 contribution increase rate of approximately 7.5% annually will provide \$6.1 million, \$7.2 million and \$8.2 million, respectively to the reserves

#### Wastewater

The City of Vaughan has invested \$553 million (replacement value, Corporate Asset Management Strategy, 2014) into its wastewater infrastructure. The wastewater infrastructure is depreciating by \$13.7 million per year. To cover the annual depreciation, the City needs to contribute at least \$13.7 million to the wastewater reserves. The 2015 budget contribute \$7.2 million to the reserves in 2015. This will not cover the annual depreciation for 2015, however the 2016 to 2018 forecast will start to meet annual depreciation of wastewater assets.

To meet the requirements of the Sustainable Water and Sewage Systems Act, the forecasted six year financial plan has also been addressed through the forecasted 2016 to 2018 wastewater rates (four year plan, as required by the 2015 budget process). The forecasted 2016 to 2018 rates of approximately 12% annually will provide \$11 million, \$15.7 million and \$20.8 million, respectively to the reserves. The wastewater rate will meet annual depreciation costs in 2017 and start to build the reserve to meet future wastewater infrastructure needs.

<sup>1</sup> Water and Sewer Rates: Full Cost Recovery, National Guide to Sustainable Municipal Infrastructure

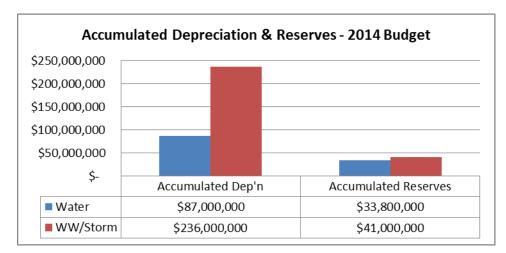
#### EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015

#### Item 2, Finance Report No. 6 – Page 7

In summary, the planned 2015 water reserve contribution will exceed annual water depreciation value. The wastewater reserve contribution will not meet this in 2015, however, the projected contribution rate increases will ensure annual wastewater depreciation is exceeded by 2017. Exceeding the annual depreciation charges is vital to ensuring the City meets its long term financial requirements and recover past contributions which should have occurred.

## Long term financial planning requires that the City address accumulated depreciation and asset management requirements

The following table illustrates the City's water and wastewater assets accumulated depreciation and the reserves which are used to replace future water and wastewater infrastructure needs. Accumulated depreciation is the total depreciation of the City's assets since they were built. Another aspect of prudent financial planning is to save enough money in the City's reserves to cover the value of the accumulated depreciation.



The following table clearly depicts a reserve deficit for both water and wastewater infrastructure.

#### Contributing at a rate which will cover the City's accumulated depreciation will also move the City towards meeting long term asset management requirements

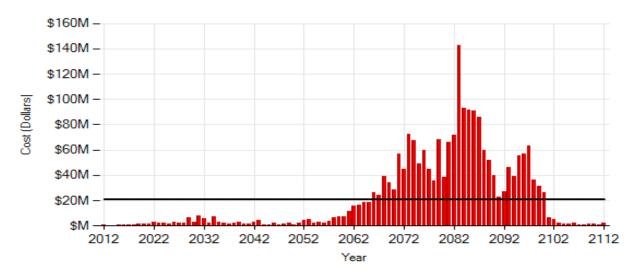
#### Water

The Corporate Asset Management Strategy (2014) identified water infrastructure needs starting in 2030, with approximately \$10 million identified, with significant water infrastructure needs identified in the 2070's and 2080's at approximately \$70 million and \$140 million, respectively as shown in the graph below:

#### EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015

#### Item 2, Finance Report No. 6 - Page 8

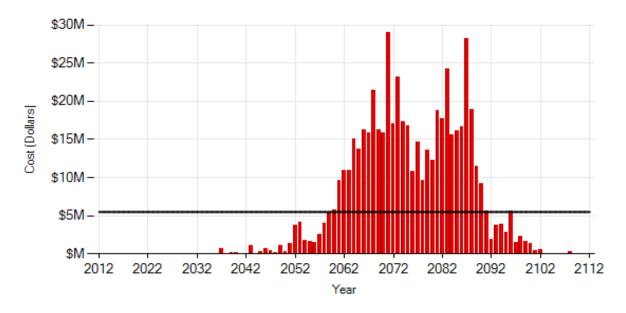
Future Investment, Water Services, (2012\$)



#### Wastewater/Stormwater

The Corporate Asset Management Strategy (2014) identified wastewater infrastructure needs starting in 2060, with approximately \$5 million identified, with significant wastewater infrastructure needs identified in the 2070's and 2080's at approximately \$29 million and \$28 million, respectively as shown in the graph below:

Future Investment, Wastewater Services, (2012\$)



The city is continuing to update its asset data and will be formulating an integrated asset management funding strategy and the water and wastewater/stormwater plans will be refined accordingly. Stormwater data will be incorporated in the current infrastructure funding study.

#### EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015

#### Item 2, Finance Report No. 6 – Page 9

At the projected reserve contribution rates the City's long-term financial needs would be fully addressed in a 30 to 50 year horizon. City staff continues to study alternate reserve and investment scenarios, and new revenue/funding opportunities and these will be the subject of future reports to Council.

#### Water and Wastewater/Stormwater Revenue

#### The City covers all costs of delivering water and wastewater services through rates

#### Water

The cost of delivering water services is fully recovered through billing from metered water users. For budgeting purposes, the total cost of delivering water services is divided by the projected number of cubic metres of water sold to the City's account holders and billed on a projected water usage basis.

#### Wastewater/Stormwater

The cost of delivering wastewater/stormwater services is also fully recovered through billing from metered water users. For budgeting purposes, the total cost of delivering wastewater/stormwater services is divided by the projected number of cubic metres of water sold to the City's account holders and billed.

The calculation of the wastewater rate based on water usage is a common practice in the industry.

# The 2015 consumption volume is conservatively estimated and is developed based on current consumption patterns, annual growth estimates and does not reflect any weather predictions.

The volume of wastewater is not metered and therefore the wastewater consumption volume is billed in accordance with water volumes.

## Decreasing consumption and changing weather patterns will cause water and wastewater rates to increase

The City of Vaughan is experiencing a downward trend in consumption per account due to conservation efforts and changing weather. Lower consumption per account will put upward pressure on rates in order to cover fixed costs and annual depreciation charges in order to contribute adequately to reserve funding.

	% New	Consumption
AVERAGE 2013-2014	Accounts	Per Account
WATER		
Residential	1.10%	-5.13%
Commercial	1.40%	-3.13%
WASTEWATER		
Residential	1.15%	-5.09%
Commercial	1.56%	-4.38%

Generally speaking, infrastructure needs will not decrease with lower per account consumption. Thus, users will pay more for water and wastewater services, although they are using less water.

#### **EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015**

#### Item 2, Finance Report No. 6 – Page 10

#### 2015 Water and Wastewater Rates

Rates are set to meet Region of York purchases legislative requirements, operational needs and reserve contributions. The 2015 budget and 2016 to 2018 forecast focusses on meeting these requirements and building reserves

As discussed previously, the water rates are sufficient to meet the requirements of the Safe Drinking Water Act, which includes contribution to reserves.

The wastewater rates will be required to contribute significantly to reserves as there is a large deficit in wastewater reserves

## The draft 2015 rates will result in an annual residential impact of \$ 91.59 per year based on an annual consumption of 300 cubic metres

Based on the draft rate increase for water and wastewater the impact to the ratepayer who consumes 300 cubic metres will be approximately \$91.59 or \$7.63 per month.

The draft 2015 recommended rates are:

- Water \$1.4780 per cubic meter
- Wastewater \$1.9130 per cubic meter
- Combined \$3.3910 per cubic meter

Residential customers will see a combined increase of \$0.3053 per cubic meter or \$91.59 per annum based on an annual consumption of 300 cubic metres. The City's consumption rates continue to be competitive as demonstrated on Attachment No. 3.

#### Relationship to Vaughan Vision 2020

The 2015 draft water and wastewater/stormwater budget and 2016 – 2018 forecast establishes the budget and resources required to maintain service levels and undertake Council priorities in this area. The budget will promote community safety, health and wellness, managing corporate assets and ensure financial sustainability.

#### **Regional Implications**

There are no implications however, the Regional purchases for 2015 represents 74% of the City's combined costs.

The Region of York is undertaking a rate study in 2015 which will have impact on the City of Vaughan's forecasted 2016-2018 rate projections.

The Region rates come into effect on April 1 and if would be prudent for the City of Vaughan rates to align with this timing to ensure we can recover the increases associated with York Region.

#### Conclusion

The combined draft rate increase at 9.9% covers a 10% rate increase from the Region of York, which accounts for 74% of the City's expenses. These rate increases are necessary to ensure that sufficient reserves will be available for future infrastructure replacement.

The 2015 draft water/wastewater/stormwater budgets will generate funds to support operations and move towards full cost recovery thereby meeting the Safe Drinking Water Act and Sustainable Water and Sewage System requirements.

#### EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 24, 2015

#### Item 2, Finance Report No. 6 - Page 11

Based on the draft rate increase for water and wastewater the impact to the ratepayer that consumes 300 cubic metres will be approximately \$91.59 or \$7.63 per month.

It is therefore recommended that the City's water rate be increased to \$1.4780 per cubic meter and that the wastewater rate be increased to \$1.9130 per cubic meter both effective April 2015.

#### **Attachments**

- 1. 2015 Draft Operating Water and Wastewater/Stormwater Budgets
- 2. The 2015 Water and Wastewater/Stormwater ARR Staffing Requests
- 3. 2015 Water and Wastewater Municipal Rate Comparison
- 4. Water, Wastewater & Stormwater 2015 Business Plan
- 5. 2016-2018 Plan
- 6. Approved 2015 Capital Budgets and 2016-2018 Capital Plans
- 7. 2015 Draft Operating Budget Water and Wastewater Charge Amendments

#### Report prepared by:

Dean Ferraro CPA, CA Director of Financial Services & Deputy Treasurer, Ext. 8272

Jennifer Rose Director of Environmental Services, Ext. 6116

Carey Greenidge, CMA, Finance Manager, Ext. 8486

(A copy of the attachments referred to in the foregoing have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)

#### 2015 DRAFT WATER AND WASTEWATER/STORMWATER OPERATING BUDGETS AND THE 2016-2018 PLAN

#### **Recommendation**

The Commissioner of Finance & City Treasurer, the Commissioner of Public Works, the Director of Environmental Services and the Director of Financial Services and Deputy Treasurer recommend:

- That the draft 2015 budget including rate increases for Water and Wastewater reflecting the Regional Rate increase, City operating and City capital requirements be considered as follows:
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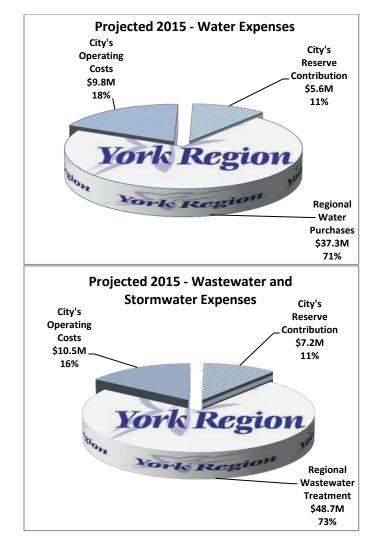
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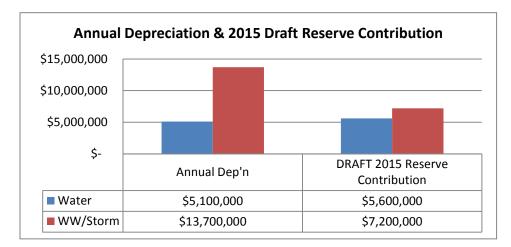
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As with water, inflationary increases from contracts and agreements, maintenance and administration were also factored into the budget. A new inspection program for storm and sanitary sewer pipes will provide condition data for asset management purposes and reduce risk. One ARR has been added to 2015: Supervisor, Wastewater/Stormwater Operations will provide direction and leadership ensuring effective management of field staff and contractors

The new 2015 operational initiatives, the contract cost increases, and salary inflationary increases amount to \$776K.

Prudent financial planning requires ongoing contribution to Water and Wastewater Reserves to fund repair and replacement of the water and wastewater infrastructure

Using annual depreciation as a basis for reserve funding is a best practice according to the National Guide to Sustainable Municipal Infrastructure. "It is best practice to use the funds generated from depreciation charges on infrastructure investments to finance past, current or future infrastructure investments."<sup>1</sup>



The following table illustrates annual depreciation of water and wastewater assets.

#### Water

The City of Vaughan has invested \$420 million (replacement value, Corporate Asset Management Strategy, 2014) into its water infrastructure. The water infrastructure is depreciating by \$5.1 million per year. To cover the annual depreciation, the City needs to continue to contribute at least \$5.1 million to the water reserves. The 2015 budget contributes \$5.6 million to the reserves in 2015. This will not only cover the annual depreciation but start to address future capital needs.

To meet the requirements of the Safe Drinking Water Act, the forecasted six year financial plan has also been addressed through the forecasted 2016 to 2018 water rates (four year plan, as required by the 2015 budget process). The forecasted 2016 to 2018 contribution increase rate of approximately 7.5% annually will provide \$6.1 million, \$7.2 million and \$8.2 million, respectively to the reserves

#### Wastewater

The City of Vaughan has invested \$553 million (replacement value, Corporate Asset Management Strategy, 2014) into its wastewater infrastructure. The wastewater infrastructure is depreciating by \$13.7 million per year. To cover the annual depreciation, the City needs to contribute at least \$13.7 million to the wastewater reserves. The 2015 budget contribute \$7.2 million to the reserves in 2015. This will not cover the annual depreciation for 2015, however the 2016 to 2018 forecast will start to meet annual depreciation of wastewater assets.

To meet the requirements of the Sustainable Water and Sewage Systems Act, the forecasted six year financial plan has also been addressed through the forecasted 2016 to 2018 wastewater rates (four year plan, as required by the 2015 budget process). The forecasted 2016 to 2018 rates of approximately 12% annually will provide \$11 million, \$15.7 million and \$20.8 million, respectively to the reserves. The wastewater rate will meet annual depreciation costs in 2017 and start to build the reserve to meet future wastewater infrastructure needs.

<sup>&</sup>lt;sup>1</sup> Water and Sewer Rates: Full Cost Recovery, National Guide to Sustainable Municipal Infrastructure

In summary, the planned 2015 water reserve contribution will exceed annual water depreciation value. The wastewater reserve contribution will not meet this in 2015, however, the projected contribution rate increases will ensure annual wastewater depreciation is exceeded by 2017. Exceeding the annual depreciation charges is vital to ensuring the City meets its long term financial requirements and recover past contributions which should have occurred.

## Long term financial planning requires that the City address accumulated depreciation and asset management requirements

The following table illustrates the City's water and wastewater assets accumulated depreciation and the reserves which are used to replace future water and wastewater infrastructure needs. Accumulated depreciation is the total depreciation of the City's assets since they were built. Another aspect of prudent financial planning is to save enough money in the City's reserves to cover the value of the accumulated depreciation.

 Accumulated Depreciation & Reserves - 2014 Budget

 \$250,000,000

 \$200,000,000

 \$150,000,000

 \$150,000,000

 \$100,000,000

 \$50,000,000

 \$ 

 Accumulated Dep'n

 Accumulated Dep'n

 \$87,000,000

 \$33,800,000

 \$Water

 \$87,000,000

 \$236,000,000

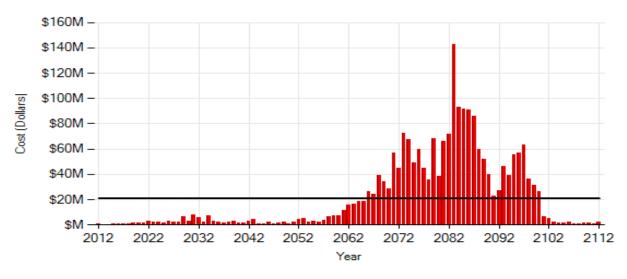
The following table clearly depicts a reserve deficit for both water and wastewater infrastructure.

#### Contributing at a rate which will cover the City's accumulated depreciation will also move the City towards meeting long term asset management requirements

#### Water

The Corporate Asset Management Strategy (2014) identified water infrastructure needs starting in 2030, with approximately \$10 million identified, with significant water infrastructure needs identified in the 2070's and 2080's at approximately \$70 million and \$140 million, respectively as shown in the graph below:

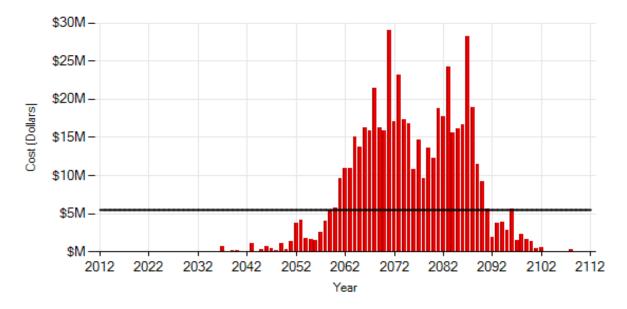
Future Investment, Water Services, (2012\$)



#### Wastewater/Stormwater

The Corporate Asset Management Strategy (2014) identified wastewater infrastructure needs starting in 2060, with approximately \$5 million identified, with significant wastewater infrastructure needs identified in the 2070's and 2080's at approximately \$29 million and \$28 million, respectively as shown in the graph below:

Future Investment, Wastewater Services, (2012\$)



The city is continuing to update its asset data and will be formulating an integrated asset management funding strategy and the water and wastewater/stormwater plans will be refined accordingly. Stormwater data will be incorporated in the current infrastructure funding study.

At the projected reserve contribution rates the City's long-term financial needs would be fully addressed in a 30 to 50 year horizon. City staff continues to study alternate reserve and

investment scenarios, and new revenue/funding opportunities and these will be the subject of future reports to Council.

#### Water and Wastewater/Stormwater Revenue

#### The City covers all costs of delivering water and wastewater services through rates

#### Water

The cost of delivering water services is fully recovered through billing from metered water users. For budgeting purposes, the total cost of delivering water services is divided by the projected number of cubic metres of water sold to the City's account holders and billed on a projected water usage basis.

#### Wastewater/Stormwater

The cost of delivering wastewater/stormwater services is also fully recovered through billing from metered water users. For budgeting purposes, the total cost of delivering wastewater/stormwater services is divided by the projected number of cubic metres of water sold to the City's account holders and billed.

The calculation of the wastewater rate based on water usage is a common practice in the industry.

# The 2015 consumption volume is conservatively estimated and is developed based on current consumption patterns, annual growth estimates and does not reflect any weather predictions.

The volume of wastewater is not metered and therefore the wastewater consumption volume is billed in accordance with water volumes.

## Decreasing consumption and changing weather patterns will cause water and wastewater rates to increase

The City of Vaughan is experiencing a downward trend in consumption per account due to conservation efforts and changing weather. Lower consumption per account will put upward pressure on rates in order to cover fixed costs and annual depreciation charges in order to contribute adequately to reserve funding.

AVERAGE 2013-2014	% New Accounts	Consumption Per Account
WATER		
Residential	1.10%	-5.13%
Commercial	1.40%	-3.13%
WASTEWATER		
Residential	1.15%	-5.09%
Commercial	1.56%	-4.38%

Generally speaking, infrastructure needs will not decrease with lower per account consumption. Thus, users will pay more for water and wastewater services, although they are using less water.

#### 2015 Water and Wastewater Rates

# Rates are set to meet Region of York purchases legislative requirements, operational needs and reserve contributions. The 2015 budget and 2016 to 2018 forecast focusses on meeting these requirements and building reserves

As discussed previously, the water rates are sufficient to meet the requirements of the Safe Drinking Water Act, which includes contribution to reserves.

The wastewater rates will be required to contribute significantly to reserves as there is a large deficit in wastewater reserves

## The draft 2015 rates will result in an annual residential impact of \$ 91.59 per year based on an annual consumption of 300 cubic metres

Based on the draft rate increase for water and wastewater the impact to the ratepayer who consumes 300 cubic metres will be approximately \$91.59 or \$7.63 per month.

The draft 2015 recommended rates are:

- Water \$1.4780 per cubic meter
- Wastewater \$1.9130 per cubic meter
- Combined \$3.3910 per cubic meter

Residential customers will see a combined increase of \$0.3053 per cubic meter or \$91.59 per annum based on an annual consumption of 300 cubic metres. The City's consumption rates continue to be competitive as demonstrated on Attachment No. 3.

#### Relationship to Vaughan Vision 2020

The 2015 draft water and wastewater/stormwater budget and 2016 – 2018 forecast establishes the budget and resources required to maintain service levels and undertake Council priorities in this area. The budget will promote community safety, health and wellness, managing corporate assets and ensure financial sustainability.

#### **Regional Implications**

There are no implications however, the Regional purchases for 2015 represents 74% of the City's combined costs.

The Region of York is undertaking a rate study in 2015 which will have impact on the City of Vaughan's forecasted 2016-2018 rate projections.

The Region rates come into effect on April 1 and if would be prudent for the City of Vaughan rates to align with this timing to ensure we can recover the increases associated with York Region.

#### **Conclusion**

The combined draft rate increase at 9.9% covers a 10% rate increase from the Region of York, which accounts for 74% of the City's expenses. These rate increases are necessary to ensure that sufficient reserves will be available for future infrastructure replacement.

The 2015 draft water/wastewater/stormwater budgets will generate funds to support operations and move towards full cost recovery thereby meeting the Safe Drinking Water Act and Sustainable Water and Sewage System requirements.

Based on the draft rate increase for water and wastewater the impact to the ratepayer that consumes 300 cubic metres will be approximately \$91.59 or \$7.63 per month.

It is therefore recommended that the City's water rate be increased to \$1.4780 per cubic meter and that the wastewater rate be increased to \$1.9130 per cubic meter both effective April 2015.

#### **Attachments**

- 1. 2015 Draft Operating Water and Wastewater/Stormwater Budgets
- 2. The 2015 Water and Wastewater/Stormwater ARR Staffing Requests
- 3. 2015 Water and Wastewater Municipal Rate Comparison
- 4. Water, Wastewater & Stormwater 2015 Business Plan
- 5. 2016-2018 Plan
- 6. Approved 2015 Capital Budgets and 2016-2018 Capital Plans
- 7. 2015 Draft Operating Budget Water and Wastewater Charge Amendments

#### Report prepared by:

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Respectfully submitted,

John Henry, CPA, CMA Commissioner of Finance & City Treasurer

Paul Jankowski, P. Eng. Commissioner of Public Works

Jennifer Rose, Director of Environmental Services

Dean Ferraro, CPA, CA Director of Financial Services & Deputy Treasurer

## The Corporation of the City of Vaughan 2015 Draft Operating Budget Water Reserve Fund

			%		%
		2015	of	2014	of
		Draft Budget	Sales	Budget	Sales
Water Rev	enues				
	Residential Billings	30,871,725		31,387,680	
	Commercial Billings	20,504,350		19,079,840	
	Other	226,425		335,540	
		\$51,602,500		\$50,803,060	
Water Purc	chases				
	Metered Water Purchases	32,481,717		31,378,540	
	Non-Revenue Water	4,853,590	13.0%	4,700,000	13.0%
		\$37,335,307		\$36,078,540	
GROSS M	IARGIN	\$14,267,193	27.6%	\$14,724,520	29.0%
Other Reve	enues				
	Installation and Service Fees	606,120		576,250	
	Interest	500,000		440,000	
		\$1,106,120	2.1%	\$1,016,250	2.0%
Expenses					
	Maintenance and Installation Cost	5,929,985		5,007,935	
	General Administration	2,233,459		2,057,865	
	Joint Service Costs	593,842		759,855	
	Debenture Payments	213,845		214,550	
	Administration Overhead	486,460		1,651,120	
	Insurance Allocation	312,070		300,915	
		\$9,769,661	18.9%	\$9,992,240	19.7%
LIFECYCL	E CONTRIBUTION - RESERVE	\$5,603,652	10.9%	\$5,748,530	11.3%

## Statement of Continuity - Water Reserve

Description		2015 Draft	2014
		Budget	Budget
Reserve Balance - Begin	ning - Actual	\$33,845,544	\$32,255,064
Reserve contribution from	n Water Operations	5,603,652	5,748,530
Capital Fund Transfer	- Year End Actual - Yearly Budget - Committed	(7,606,667)	(4,158,050)
Revenue Fund Transfer	- Yearly Budget		
Reserve Balance - Endi	ng - Committed / Actual	\$31,842,529	\$33,845,544

#### ATTACHMENT 1

The Corporation of the City of Vaughan

## 2015 Draft Operating Budget

## Wastewater Reserve Fund

	2015	%	2014	%
Description	Draft	of		of
	Budget	Sales	Budget	Sales
Wastewater Revenues				
Residential Billings	38,606,530		36,211,940	
Commercial Billings	26,714,220		22,502,440	
Other	171,000		0	
	\$65,491,750		\$58,714,380	
Wastewater Expenses				
Regional Treatment Charges	\$48,704,975		\$45,230,670	
GROSS MARGIN	\$16,786,775	25.6%	\$13,483,710	23.0%
Other Revenues				
Local Improvements	240,500		233,780	
Sundry	3,800		3,000	
Installation and Service Fees	161,000		161,000	
Interest	<u> </u>	1.5%	514,430 <b>\$912,210</b>	1.6%
Expenses				
Maintenance and Installation	Cost 3,993,741		3,773,935	
General Administration	1,385,217		664,910	
Storm Sewer Maintenance	3,507,308		1,772,615	
Joint Service Costs	697,118		506,570	
Debenture Payments	219,927		222,895	
Administration Overhead	383,993		1,100,745	
Insurance Allocation	351,909	n <u>10-1</u>	325,985	
	\$10,539,213	16.1%	\$8,367,655	14.3%
LIFECYCLE CONTRIBUTION - RESERVE	\$7,202,862	11.0%	\$6,028,265	10.3%

## Statement of Continuity - Wastewater Reserve

Description	2015 Draft	2014
	Budget	Budget
Reserve Balance - Beginning - Actual	\$41,014,075	\$35,265,810
Reserve contribution from Wastewater Operations	7,202,862	6,028,265
Capital Fund Transfer - Year End Actual - Yearly Budget - Committed	(792,070)	(280,000)
Revenue Fund Transfer - Yearly Budget		
Reserve Balance - Ending - Committed / Actual	\$47,424,867	\$41,014,075

ATTACHMENT 2

# CITY OF VAUGHAN 2015 Water/Wastewater/Storm Operating Budget New Complement Summary

L

						ANNUAL				
	Position		Full				Offsetting	Budget	2015 Budget Impact	Impact
Department	Description	Status	Comp.	Salary	Benefits	Other	Reductions	Impact	\$	FTE
Environmental Services (Water)	Supervisor Water - Staff to provide direction and leadership to the Water Division in Environmental Services Department	Full Time	1.0	93,706	25,582	4,600	ř	123,888	123,888	1.00
Environmental Services (Wastewater)	Supervisor Wastewater - Staff to provide direction and leadership to the Wastewater Division in Environmental Services Department	Full Time	1.0	93,706	25,582	4,600	ĩ	123,888	123,888	1.00
TOTAL	-1		2.0	187,412	51,164	\$9,200	\$0	247,776	247,777	2.00

#### Attachment 2

#### CITY OF VAUGHAN 2015-2018 OPERATING BUDGET

<b>Request Title</b>	Г			Supervisor	r Water			1	
		Γ				dea			
Business Unit #	2340001	Commission of Public Works							
	Ļ		En	vironmental Se	ervices (Water	-)	1		
Related Program								1	
Program Classifi	cation		VIII environment travi					]	
			Annual Bud	get Change Sur T	nmary I	2015-2018	2019	2015-2019	1
Financial Co	omponents	2015	2016	2017	2018	Sub-total	(One Time. Adj.)	Sub-total	
Staffing									
Complements Net FTE's		1.00 1.00	-	-		1.00 1.00	-	1.00 1.00	
Operating Reven	ue	-	-			1. A. S.			
Operating Costs									
Staffing & Ber	0.0847.041.580.2	119,288	-	-	-	119,288	-	119,288	
Other continue		2,600	-	-	-	2,600	150	2,600	
One-time expe Offsets/reduct		2,000	(2,000)	-	-		-		
Net Operating Bu		\$ 123,888	\$ (2,000)	\$ -	\$ -	\$ 121,888	\$-	\$ 121,888	
Associated Capit		s -	s -	s -	s -	s -	s -	\$ -	
s Supervisor positi pan of control and	ensure effective n	provide directior nanagement ove	and leadership rsight of field sta						
s Supervisor positi span of control and nsideration of the fo	on is requested to ensure effective n ormer Environment	provide directior nanagement ove tal Technical Ser	and leadership rsight of field sta vices division.	to the Water Di	was recognize	d as required t	oy an ICI study in		
is Supervisor positi span of control and nsideralion of the fo	on is requested to ensure effective n ormer Environment is part of a proj	provide directior nanagement ove tal Technical Ser	and leadership rsight of field sta vices division.	to the Water Di	was recognize	d as required t	oy an ICI study in		
s Supervisor positi span of control and usideration of the fo	on is requested to ensure effective n ormer Environment is part of a proj	provide directior nanagement ove tal Technical Ser	and leadership rsight of field sta vices division.	to the Water Di aff. This position	was recognize	d as required t	oy an ICI study in		
s Supervisor positi span of control and usideration of the fo ) If this request estones or Delive	on is requested to ensure effective n ormer Environment is part of a proj rables	provide directior nanagement ove lal Technical Ser ject with multi (cost/time/ber	and leadership rsight of field sta vices division. ple milestone nefit):	to the Water Di aff. This position	was recognize	d as required t	oy an ICI study in	to the organizati	onal
s Supervisor positi span of control and usideration of the fo ) If this request estones or Delive ) Impact on othe partment Impacted	on is requested to ensure effective n ormer Environment is part of a proj rables	provide direction nanagement ove lal Technical Ser ject with multi (cost/time/ben	and leadership rsight of field sta vices division. ple milestone nefit):	to the Water Di aff. This position es then please Timelines	was recognize	d as required t	oy an ICI study in	to the organizati	onal Consulted?
is Supervisor positi span of control and nsideration of the for ) If this request estones or Delive ) Impact on othe spartment Impacted sital Delivery and et Management	on is requested to ensure effective n prmer Environment is part of a proj rables er departments Describe Impact Provide operational a	provide direction nanagement ove tal Technical Ser ject with multi cost/time/ben and condilion asses	and leadership rsight of field sta vices division. ple milestone nefit): efit) sment data to supp	to the Water Di aff. This position es then please Timelines	was recognize	d as required t	oy an ICI study in	to the organizati Were they ( ☑r≝	onal Consulted? ⊡
s Supervisor positi span of control and isideration of the fo ) If this request estones or Delive ) Impact on othe partment Impacted ital Delivery and et Management elopment Engineering	on is requested to ensure effective n ormer Environment is part of a proj rables er departments Describe Impact Provide operational a	provide direction nanagement ove tal Technical Ser ject with multi cost/time/ben and condilion asses	and leadership rsight of field sta vices division. ple milestone nefit): efit) sment data to supp	to the Water Di aff. This position es then please Timelines	was recognize	d as required t	oy an ICI study in	to the organizati	onal Consulted? ⊡ ⊧∍
is Supervisor positi span of control and nsideration of the for ) If this request estones or Delive ) Impact on othe spartment Impacted sital Delivery and et Management relopment Engineering Infrastructure	on is requested to ensure effective n ormer Environment is part of a proj rables er departments Describe Impact Provide operational a	provide direction nanagement ove tal Technical Ser ject with multi cost/time/ben and condilion asses	and leadership rsight of field sta vices division. ple milestone nefit): efit) sment data to supp	to the Water Di aff. This position es then please Timelines	was recognize	d as required t	oy an ICI study in	to the organizati Were they ( ☑r≝	onal Consulted? ⊡
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ease check one: is Supervisor positi span of control and nsideration of the for- is) If this request lestones or Deliver is) Impact on other expanded of the second partment Impacted oital Delivery and tet Management reforment Engineering Infrastructure her comments: a work expected from partments COMMISSIONE	on is requested to ensure effective n prmer Environment is part of a proj rables er departments Describe Impact Provide operational of Provide operational of m the Supervisor	provide direction nanagement ove (al Technical Ser ject with multi (cost/time/ben and condition asses comments on service will be shared be	and leadership rsight of field sta vices division. ple milestone nefit): efit) sment data to supp ing studies for futur	to the Water Di aff. This position es then please Timelines wort asset managen re development	e fill in the fol	d as required t	planning and cor	to the organizati Were they ( ②r≤ □r≤ □r≤ □r≤	onal Consulted? □ <sup>ko</sup> □ <sup>ko</sup>

<u>s</u>:

4

R	equest Title				Supervisor, Wa	ater			]	
2) Re	elationship to	Vaughan Vis	ion 20	20 - Goals / Objectives	/ Initiatives			n en		
				ughan Vision 2020 initiativ he relationship with the in					ion of): Choose	e an Initiative
							the drop de		Deserved and the	
	Theme	Goal	Ŷ	Initiative (Use drop	down list) 🦊	Ref #	Date	Priority	Request/Initiative (choo	e Relationship ose 1)
			Contir	ue to implement Operational/Busin areas	less reviews for program	4	Q4/15	Low	Manc	latory
R) Do	carlba and alos	l		the request links to the Va	ughan Vision 2020			26 (S. 2007)		11
This p	osition allows fo	or a high perform		the request links to the Va anization and effective lead			t staff can inc	lude operational	and strategic pla	anning, as well
as, re	sponding to dail	y activities.								
2) 17.0	Interd Deuferm			Business Plan Link	at the second	56 Of 1104		n an san ing a	and the second second	Marine and America
-				formance measures:						
- 16	ase provide in	ionnation on to	h 2 hei	formatice measures.		1.1.1.1				
1) Na	me/description	of service leve	l targe	t:	Target Level	Curre	nt Level	Level w/ ARR	-	
2)										
3)									]	
		and the second se		partmental Business Plan						1996 - A. A.
This p	osition will supp	ort the Water Bu	isiness	Plan by allowing managem	ent staff to identify ar	nd impleme	nt business e	effective solution	5.	
	lue Propositio	and the second se	<u></u>							
				ntitative benefits of the real which best describe this re						
	Primary			ser Satisfaction	Secondary [		Impro	ve Staff Morale		]
	explain how this rveys, measure		achieve	the actions selected above	. How does this requ	uest make a	a difference i	n these areas?	Can improvemen	ts be defined
1		- 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995	de timel	y responses to citizen and I	business inquiries by	sharing the	e work load.	Increase staff ov	versight will impro	ove staff morale
as mo	re time can be s	pent on individu	al coac	ning and professional devel	opment of staff.					
0										
	efficiency impr		ation of	how this request improve	es efficiency. Note	that perfor	mance mea	sures are captu	red in section 3	. This section
Year	Туре	Change/Saving	Units	Detail of Cost Reduction	s/Budget Savings		-			Incl. in offsets (Section #9)?
2015	Time/Capacity			Increased time spent on co contractor accountability	ontract management	will ensure	better contra	actor oversight le	ading to more	No
5) Alt	ernatives							- 18 B. A.		
				se explain what they are a						
		keep the status		nich has proven to not be el	ffective as currently o	one Supervi	isor must pro	vide guidance, c	oaching and ove	rsight to 18
			2.5.5.5							

Request Title	Supervisor, Water
6) Implications/Conse	juences (if request not approved)
A) Please check off how	he request relates to the following:
	Requirement due to Law, Regulation, or Act. (NOTE: A By-Law is not a legal requirement)
1) is there a federal or p	rovincial statute or regulation which makes implementation of this request mandatory? If yes, specify which statute/regulation and if there is a due date for implementation. If no, skip to question 2.
no	
	s there a federal or provincial statute or regulation which is related to this request? If yes, specify which statute/regulation and indicate how it is related.
3) What are the conseq	ences of non-compliance? Specify if there is a fine or other penalty and the amount.
None	
O Little consequence	of non compliance
O Significant external	'epercussion/penalty
4) Current status of com	pliance:
and the second	
Risk Management (1	o move within the range, click on indicator and slide it with your mouse or click on arrows at the end of the scale)
Probability of Litigation	Comments
$\frac{1}{2} = \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} + $	Please describe the type and nature of risk
None Low	Medium High
Financial Impact	
<ul> <li>Maintaine (2019)</li> </ul>	
\$0 \$10,000 \$100.0	20 \$1,000,000 > \$10,000,000
Health and Safety Risk O None O Internal	External Soth
Probability of Health & S	atety Issue
and the second sec	
None Low	Medium High
Health and Safety Magn	tude
None Minor	Major Severe
Internal Operational Re	quirements
O None	
O Service provided wit	h minor internal issues -slight inconvenience
1750 1870 1870	e department's directive
O Direct affect on mult	
O Citywide implication	
Comments ICI report cited more that	n double the number of workorders from 2011 to 2012, span of control in unsustainable
	er impacts/consequences not detailed above and those who will be affected if the request is not approved. (e.g. staff, residents
community, etc.) The Wastewater/Stormwate	Division delivers services through the use of contractors. The current Supervisor oversees 30 contractors and 17 staff. To ensure
	versight, it is essential that more management staff be put in place

143

Request Title		Supe	ervisor, Water			
7) Complement Deta	Is - Skip to Sectio	n 8 if no Staff is requested			Q	
		Do not gap positions - If required, pleas				
Complement Informatio		uture year progressions & eco. adj. will b Position #1	Position #2		-	
Budget Year	<u>n</u>	2015	Position #2	Position #3		Sub-tota
Position litle		Supervisor, Water			-	
Estimated start date		Q1/15			_	
# of positions requested					_	
and the second		1.00		-		1.
Full-time equivalents (FT	=\$)	1.00		-	-	1.
Position type		Full-time				
Position agreement class	ification	Mgmt/Non-union				
If contract, specify length	(months or yrs.)					
lf Casual/Seasonal PT en	ter Hourly wage					
Business unit # (overnde if di	ferent than # shown)	2340001				
Grade level		8				
Est. starting step		1				
Desktop (HR) Review Per	formed?	No			-	
B&F Accommodations Av		No			-	
TM Hardware required?		Yes			-	
Capital Equipment Required?		Yes			-	
Complement Annual Cos		103				
Annual full-time \$	the second se	00.700			-	
Annual part-time \$		93,706				93,70
and the second				-	-	
Annual shift premiums, etc	2.	•		-	·	
Annual overtime \$		-		-	-	
PT vacation pay (calculat	ed field)	-		-	-	
Annual benefits (calculate	ed field)	25,582		-	-	25,58
FT contract benefits in lie	eu (calculated field)	-		-	-	
Subtotal (Per E		\$ 119,288	\$	- \$	- \$	119,28
Subtotal (Per F	Position)	\$ 119,288	\$	- \$	- \$	119,28
Continuous costs	(BU & Acct #.)	Please fill in per Complement. The tota	I will account for multiple positions	if indicated above.		
1) Office Supplies	2340001.7200 2340001.7115	100		-	-	100
2) Training & Developme 3) Cellular Line Charges	2340001.7122.01	1,000		-	-	1,000
4) Mileage	2340001.7100	1,000		-		1,000
Subtotal (Per Ei				-	-	500
Subtotal (Per El				- s - s	- \$	2,60
					- \$	2,600
Dine-time costs	(BU & Acct #.) 2340001.7211.01	Please fill in per Complement. The tota	I will account for multiple positions i		-	
2) Office Equip. & Furnitu	2340001.7210	1,000		-	-	1,000
3) Training & Developme	2340001.7115	-				1,000
4)	#N/A			-	-	
Subtotal (Per Er	nployee)	2,000		•		2,00
Subtotal (Per P		\$ 2,000	S	- S	- \$	2,00
015 Total Annual Costs	# 67 (K <sup>e</sup>	\$ 123,888	\$		\$	123,88
016 Total Annual Costs		s .	\$		\$	120,00
017 Total Annual Costs		s .	\$		S	<u>.</u>
	4 St 2-1 - 2 - 3	\$	\$	The second s	\$	

Space is available at the JOC for this person, and no additional office equipment is required.

 $\mathbf{x}_{i}$ 

		Supervisor	Water				
				and they			
ts already submitted	d/approved or to	be submitted	elated to this	ARR? (e.g. ne	w car)		
NDING Status	Year asset Available	Proi #	2015	2016	2017	2018	Total
	10/ 189	110j.#		1		2010	\$ .
							\$ - \$ -
AL FUNDING	11				s -	\$ -	\$ .
		1971 (M. 197			2.3	1.44-1-1-1	
			0045	2016	2017	2019	2040
nent	В	U Acct. #	2015			2010	2019
a datail				В	udget		Full-Yr. Adj
g detail							1
			-	-			-
			•	-			-
			•	-			
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		Subtotal		-			]
letail							-
		Subtatal					
			•	•	-		-
ng detail (For staffing	costs please fill out	section 7)					7
	(Fr	rom sect. 7)	93,706			•	
	(Fi	rom sect. 7)	25,582		•	•	
ulated field)	(Fr	rom sect. 7)	2,600	-	-	-	
			-	-			
							1
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			121,888	-		7	
detall (For staffing cos	sts please fill out se	ction 7)					
ulated field)	(Fr	rom sect. 7)	2,000	-		•	
			-				
			<b>9</b> 1	-			
		Subtotal	2.000	-	-	-	
ons. etc.							
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		Subtotal	· · ·		•		
T CHANGE			123,888		•		
PLEMENTS & FTE	s		2015	2016	2017	2018	Total
	(From s	ect. 7)					
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	(From s	ect. 7)	4.00				1. 1.1.1
	(From s	Contract in the second s	1.00			•	1.0
	NDING       Status         AL FUNDING         AL FUNDING         AL FUNDING         Inent         g detail         Idetail         Idetail	VDING       Status       Year asset Available for use         Indext of the second secon	its already submitted/approved or to be submitted in NDING Status Year asset Available Proj. #	already submitted/approved or to be submitted related to this         VDING       Status       Your asset Available for use       Proj. #       2015         AL       S       -       -       -         AL       S       -       -       -         AL       S       -       -       -         AL       FUNDING       S       -       -         nent       BU Acct. #       2015       -       -         g detail       -       -       -       -         g detail       -       -       -       -         g detail       -       -       -       -       -         g detail       -	sta area dy submitted /approved or to be submitted related to this ARR? (a.g. ne         NDING       Status       Year area & Available for use       Proj. #       2015       2016         Image: Status       Sar area & Available for use       Proj. #       2015       2016         Image: Status       Sar area & Sar a	List already submitted/approved or to be submitted related to this ARR? (e.g. new car)         VDING       Status       Year asset Available for asset Available for asset and a set of the s	ts already submitted approved or to be submitted related to this ARR? (a.g. new car)           UDING         Status         Termsee Architable         Proj. #         2015         2016         2017         2018           Intermediation of the set of

#### CITY OF VAUGHAN 2015-2018 OPERATING BUDGET

Request Title			Supe	rvisor, Wastew	ater/Stormwa	ater			
Business Unit #	2350001	]		Commission	of Public Worl	ks		]	
			Envi	ronmental Servic	ces (Wastewate	er)		1	
Related Program	1								
Program Classifi	cation							1	
		<b>.</b>	Annual Bude	get Change Sum	marv			1	
Financial Co	omponents	2015	2016	2017	2018	2015-2018 Sub-total	2019 (One Time. Adj.)	2015-2019 Sub-total	
Staffing						all the second			
Complements Net FTE's	3	1.00 1.00	-	•	-	1.00 1.00	-	1.00 1.00	
Operating Reven	ue	-	-	-			-		
Operating Costs									
Staffing & Ber	nefits	119,288	-		12	119,288		119,288	
Other continue		2,600	-		-	2,600	-	2.600	
One-time expe	enses	2,000	(2,000)	-	-		-	·	
Offsets/reduct	lions	-	-	-	-		-	$\ \mathcal{E}_{i}^{(i)}-\mathcal{E}_{i}-\mathcal{E}_{i}^{(i)}-\mathcal{E}_{i}-$	
Net Operating Bu	ıdget	\$ 123,888	\$ (2,000)	\$-	\$-	\$ 121,888	s -	\$ 121,888	
Associated Capit	al Costs	s -	s -	s -	s -	ş .	s -	\$.	
s Supervisor positi provide equity of s	span of control a	al Corporate to provide directior nd ensure effective mer Environmental	and leadership management o	versight of field s	ter/Stormwater staff. This posit	Division in Er lion was recog	vironmental Serv nized as required	vices Department. d by an ICI study in	This posi nto the
s Supervisor positi provide equity of s anizational conside	on is requested span of control a eration of the for	to provide directior nd ensure effective mer Environmental	n and leadership management o Technical Serv	versight of field s ices division.	staff. This posit	lion was recog	nized as required	vices Department. d by an ICI study in	This posil nto the
provide equity of s anizational conside ) If this request	on is requested span of control a eration of the for is part of a pr	to provide direction nd ensure effective	n and leadership management o Technical Serv	versight of field s ices division. es then please	staff. This posit	lion was recog	nized as required	vices Department. d by an ICI study in	This posit
s Supervisor positi provide equity of s anizational conside	on is requested span of control a eration of the for is part of a pr	to provide directior nd ensure effective mer Environmental	n and leadership management o Technical Serv	versight of field s ices division.	staff. This posit	lion was recog	nized as required	vices Department. d by an ICI study in	This posil
s Supervisor positi provide equity of s anizational conside ) If this request	on is requested span of control a eration of the for is part of a pr	to provide directior nd ensure effective mer Environmental	n and leadership management o Technical Serv	versight of field s ices division. es then please	staff. This posit	lion was recog	nized as required	vices Department. d by an ICI study in	This posil
s Supervisor positi provide equity of s anizational conside ) If this request estones or Delive ) Impact on othe	on is requested span of control a eration of the for is part of a pr rables er department	to provide direction nd ensure effective mer Environmental roject with multi	and leadership management o Technical Serv ple milestone	versight of field s ices division. es then please	staff. This posit	lion was recog	nized as required	d by an ICI study in	nto the
s Supervisor positi provide equity of s anizational conside ) If this request astones or Delive ) Impact on othe partment Impacted	on is requested span of control a eration of the for is part of a pr rables er department Describe Impa	to provide direction nd ensure effective mer Environmental oject with multi s (cost/time/ben ct (Cost/time/ben	and leadership management o Technical Serv ple milestone nefit):	versight of field s ices division.	fill in the fo	lion was recog	nized as required	vices Department. d by an ICI study in Were they Co	nto the
s Supervisor positi provide equity of s anizational conside ) If this request estones or Delive ) Impact on othe partment Impacted ital Delivery and et Management	on is requested span of control a eration of the for is part of a pr rables er department Describe Impa Provide operation	to provide direction nd ensure effective mer Environmental roject with multi coject with multi	and leadership management o Technical Serv ple milestone mefit): efit) sment data to supp	versight of field s ices division.	fill in the fo	lion was recog	nized as required	d by an ICI study in	nto the
s Supervisor positi provide equity of s anizational conside ) If this request estones or Delive	on is requested span of control a eration of the for is part of a pr rables er department Describe Impa Provide operation	to provide direction nd ensure effective mer Environmental oject with multi s (cost/time/ben ct (Cost/time/ben	and leadership management o Technical Serv ple milestone mefit): efit) sment data to supp	versight of field s ices division.	fill in the fo	lion was recog	nized as required	d by an ICI study in Were they Co I I Yes	nto the
s Supervisor positi provide equity of s anizational conside ) If this request estones or Delive ) Impact on othe epartment Impacted ital Delivery and et Management elopment Engineering infrastructure	on is requested span of control a eration of the for is part of a pr rables er department Describe Impa Provide operation	to provide direction nd ensure effective mer Environmental roject with multi coject with multi	and leadership management o Technical Serv ple milestone mefit): efit) sment data to supp	versight of field s ices division.	fill in the fo	lion was recog	nized as required	d by an ICI study in Were they Co ⊡res ⊡res	nto the onsulted? ⊡∘
s Supervisor positi provide equity of s anizational conside ) If this request estones or Delive ) Impact on othe partment Impacted ital Delivery and et Management elopment Engineering Infrastructure er comments:	on is requested span of control a eration of the for is part of a pr rables er department Provide operation Provide operation	to provide direction nd ensure effective mer Environmental roject with multi coject with multi	n and leadership management o Technical Serv ple milestone nefit): afit) sment data to supp ing studies for futur	versight of field s ices division.	fill in the fol	lion was recog	nized as required	d by an ICI study in Were they Co ⊇۲es ⊡res ⊡res	onsulted?
s Supervisor positi provide equity of s anizational conside ) If this request estones or Delive ) Impact on othe partment Impacted ital Delivery and el Management elopment Engineering Infrastructure er comments: e work expected fro	on is requested span of control a eration of the for is part of a pr rables er department Describe Impa Provide operation Provide operation	to provide direction nd ensure effective mer Environmental roject with multi ss (cost/time/ben et (Cost/time/ben al and condition asses al comments on servic	n and leadership management o Technical Serv ple milestone nefit): afit) sment data to supp ing studies for futur	versight of field s ices division.	fill in the fol	lion was recog	nized as required	d by an ICI study in Were they Co ⊇۲es ⊡res ⊡res	onsulted? ⊡∞ ⊡∞ er

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Re	equest Title			Supe	rvisor, Wastewater	/Stormwa	ler		]	
2) Re	lationship to	Vaughan Vis	ion 202	20 - Goals / Objectives	/ Initiatives					
A) Ide	ntify the specif	ic initiative on	the Val	ighan Vision 2020 initiativ	e list this resource				ion of): Choose	an Initiative
from	he drop down	list and then ch	noose t	ne relationship with the Ir	nitiative in the Green	cell using	the drop a	own provided.	1	
	Theme	Goal		Initiative (Use drop	o down list) 🦊 Ref # Date H			Priority	Request/Initiative (choo	e Relationship ose 1)
			Contin	ue lo implement Operational/Busin areas	ness reviews for program	4	Q4/15	Low	Manc	latory
This p	osition allows fo	r a high perform		he request links to the Va anization and effective lead			t staff can in	clude operational	and strategic pla	nning, as well
as, res	ponding to daily	y activities.								
2) Po	atad Parform	anco Indicate	ore 8 E	Business Plan Link						
				formance measures:		1000				
Fie	ase provide ini		рэры	iormance measures.		1월 일 1종 1월	1917	Well Control of the		
1	Name/description of service level target:				Target Level	Curre	nt Level	Level w/ ARR	]	
1)									-	
3)									]	
Des	cribe how this	request relate	s to De	partmental Business Plan	n:					
This p	sition will supp	ort the Wastewa	ter Bus	iness Plan by allowing man	nagement staff to ider	ntify and im	plement bus	iness effective so	olutions.	
4) Val	ue Propositio	on				2.514	States and states		and the second second	
		in the second		titative benefits of the re						
Qualit	ative: Please s Primary		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	vhich best describe this r er Satisfaction	equest Secondary		lana	ove Staff Morale		1
Briefly				the actions selected above	(12) <b>.</b>	uest make	and the second		Can improvemen	ts he defined
(i.e. su	rveys, measure	s, etc.)?								
				y responses to citizen and ning and professional devel		sharing th	e work load.	Increase staff ov	versight will impro	ove staff morale
43 110		point on marviad	0000	ing and protobilonal devel	opment of stan.					
Quant	tative: Please	provide explan	ation of	how this request improv	es efficiency. Note	that perfor	mance mea	asures are captu	red in section 3	This section
	fficiency impro									
Year	Year Type Change/Saving Units Detail of Cost Reductio			Detail of Cost Reduction	ns/Budget Savings					Incl. in offsets (Section #9)?
2015	Time/Capacity			Increased time spent on c	ontract management	will ensure	better contr	actor oversight le	ading to more	No
5) Alte	ernatives		a de la							
				se explain what they are a						8
		o keep the status operational con		nich has proven to not be e	frective as currently of	one Superv	isor must pr	ovide guidance, c	coaching and ove	ersight to 18

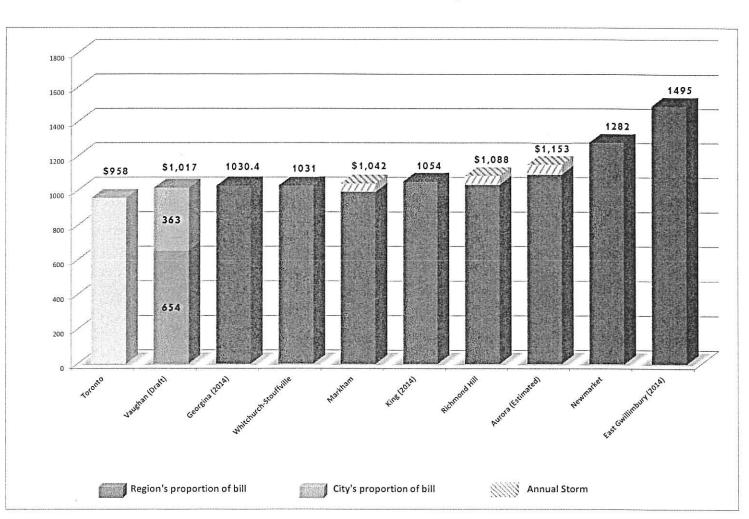
Request Title		Supervisor, Wastewater/Stormwater
) Implications/Conseq	uences (if request not approv	ved)
) Please check off how th	e request relates to the following	g:
		ntion, or Act. (NOTE: A By-Law is not a legal requirement)
		makes implementation of this request mandatory? If yes, specify which statute/regulation
and relevant section(s) a	nd if there is a due date for impleme	ientation. If no, skip to question 2.
no		
2) If no to question #1, is	there a federal or provincial statute	e or regulation which is related to this request? If yes, specify which statute/regulation
	nd indicate how it is related.	
no		
3) What are the conseque	ences of non-compliance? Specify	r if there is a fine or other penalty and the amount.
Non e		
O Little consequence o	i non compliance	
O Significant external re	percussion/penalty	
4) Current status of comp	liance:	
Risk Management (To	move within the range, click on indicator and slide	le I with your mouse or click on arrows at the end of the scale)
Probability of Litigation	on the second second second second	Comments
		Please describe the type and nature of risk
None Low	Medium High	
Financial Impact		
) S0 \$10,000 \$100,000	) \$1,000,000 > \$10,000,000	
Health and Safety Risk (cl		
O None Olnternal C		
Probability of Health & Sa	fety Issue	
None Low	Medium High	
Health and Safety Magniti	epr	
None Minor	Major Severe	
Internal Operational Reg	uirements	
O None		
O Service provided with	minor internal issues -slight inconv	venience
	department's directive	
O Direct affect on multip	le departments	
O Citywide implications		
Comments CI report cited more than	double the number of workorders fu	from 2011 to 2012, span of control in unsustainable
Briefly illustrate any othe	r impacts/consequences not det	tailed above and those who will be affected if the request is not approved. (e.g. staff, resider
nmunity, etc.)		그는 그는 그는 것 같아요. 그는 것 같아요. 전쟁 문화가 있는 것 같아요. 가지 않는 하는 것 않는 것 같아요. 가지 않는 것 않는
per contractor and staff ov	Division delivers services through t ersight, it is essential that more ma	ane use of contractors. The current Supervisor oversees 41 contractors and 18 staff. To ensure anagement staff be put in place
	n and a second second second second as a second	
munity, etc.) Wastewater/Stormwater	Division delivers services through t	the use of contractors. The current Supervisor oversees 41 contractors and 18 staff. To ensur

Request Title		Supervisor, W	astewater/Stormwater			
7) Complement Detai	Is - Skip to Section	n 8 if no Staff is requested				
.,		Do not gap positions - If required, pleas uture year progressions & eco. adj. will b				
Complement Informatio		Position #1	Position #2	Position #3	Sut	b-total
Budget Year		2015				
Position title		Supervisor, Wastewater				
Estimated start date		Q1/15			1	
# of positions requested		1.00	-			1.0
Full-time equivalents (FTEs)		1.00				
		100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	-			1.0
Position type		Full-time				
Position agreement classification		Mgmt/Non-union				
If contract, specify length	(months or yrs.)					
If Casual/Seasonal PT er	iter Hourly wage				1	
Business unit # (override if di	(ferent Ihan # shown)	2350001				
Grade level		8			1	
Est. starting step		1			1	
Desktop (HR) Review Per	formed?	No			1	
B&F Accommodations Av	ailable?	No				
ITM Hardware required?		Yes			]	
Capital Equipment Required?		Yes				
Complement Annual Co	st Detail					
Annual full-time \$		93,706				93,70
Annual part-time \$		-	-	-		
Annual shift premiums, et	с.	-	-	-		
Annual overtime \$		-	-	-		1
• PT vacation pay (calcular	led field)	-	-			
* Annual benefits (calculat	ed fleld)	25,582	-			25,582
• FT contract benefits in li	eu (calculated field)					
Subtotal (Per E		\$ 119,288	s -	s -	s ·	119,288
Subtotal (Per I		\$ 119,288		s .		119,288
Continuous costs	(BU & Acct #.)		al will account for multiple positions if i	ndicated above	1.2	
1) Office Supplies	2350001.7200	100				100
2) Training & Developme	2350001.7115	1,000	-	-		1,000
3) Cellular Line Charges	2350001.7122.01	1,000	-	-		1,000
4) Mileage	2350001.7100	500				500
Subtotal (Per E	molovee	\$ 2,600	\$	s -	\$	2,600
Subtotal (Per I		\$ 2,600		s -	\$	2,600
One-time costs	(BU & Acct #.)		al will account for multiple positions if i		1.4	2,000
	2350001.7211.01		a win account for moltiple positions in		1	4 0.00
	2350001.7210	1,000			-	1,000
	2350001.7115	1,000		· · · · · ·		1,000
3) Training & Developme		•				
4)	#N/A	•				
Subtotal (Per E	mployee)	2,000	-	-		2,000
Subtotal (Per I	Position)	\$ 2,000	s -	s -	5	2,000
2015 Total Annual Costs		\$ 123,888	s .	s	\$ .	123,888
2016 Total Annual Costs		<b>\$</b>	\$	s -	\$	
2017 Total Annual Costs		<u>\$</u>	\$	\$ -	\$	
2018 Total Annual Costs		s -	s -	S .	\$	-

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Request Title			Super	visor, Wastew	ater/Stormwa	ater			
) Capital Funding		25 B		17 N. L. A. A.	george -				
Are there any Capital requ	ests already sub	nitted/	approved or to	be submitted	related to this	ARR? (e.g. ne	w car)	210.00	
ASSOCIATED CAPITAL F		tatus	Year asset Available for use	Proj. #	2015	2016	2017	2018	Total
		utus	lot use	110].#	\$ -	\$ -	2011	2010	\$ -
2					1.00				
3					<u>\$</u> - \$-	\$ - \$ -			\$
TOTAL ASSOCIATED CAPI	TAL FUNDING				s - s -	s -	ş -	ş .	\$ .
) Financial/Resource Deta		1.	Start 1	- <u>1</u>	-1 -1 -1 -1		in the second second		
					2045	2016	2017	204.0	2010
Comp	onent		B	U Acct. #	2015			2018	2019
REVENUE - continuous operat	ing dotall					В	udget		Full-Yr. Ad
					••••••	1 1			1
2					-	•			-
						-			
3						-			-
4					-	-			
				Subtotal	-				
REVENUE - one-time operating	detail								3
1					2	-			
2					-	-			
				Subtotal				<u>.</u>	
EXPENSES - continuous opera	ting detail /Forst	offing o	oste plazen fill ou	section 7)			-	-	
1		ining c			000000000000000000000000000000000000000		1		1
Staffing costs (colculated field)     Staffing costs (colculated field)				rom sect. 7)	93,706	-		•	-
Benefits			(F	rom sect. 7)	25,582	•	•	· · ·	-
<ul> <li>Complement sch. Expenses (co</li> </ul>	lculated field)		(F	rom sect. 7)	2,600		-		-
4						•			-
5						· · ·			
6									
7					1 <u>0</u>	-			
				Subtotal	121,888				
XPENSES - one-time operatin	g detail <i>(For staff)</i>	ng cost	s please fill out se	ction 7)		1			-
* Complement sch. Expenses (ca				rom sect. 7)	2,000			-	1
2	iculteu jieluj		(F)	on sect. /]					
3									
		-		Subtotal		-			
				JUDIOIAI	2,000	•	·		
DFFSETS - cost savings, reduc						<u>г</u>			1
Unknown until review complet	ed.					-			-
					•	-			1
2					4	-			
3				Subtotal	-	-	-		
				Subtotal					
	ET CHANGE			Subtotal	123,888				1 - I
3 TOTAL OPERATING BUDGE		FTE's		Subtotal	123,888				
3 TOTAL OPERATING BUDGE	ET CHANGE	FTE's	(From s		123,888 2015	2016	2017	2018	Total
3 TOTAL OPERATING BUDGE CC # of positions requested		FTE's	(From s	ect. 7)	123,888 2015 1.00	2016	2017	2018	Total
3 TOTAL OPERATING BUDGE		FTE's	(From s (From s (Manua	ect. 7) ect. 7)	123,888 2015	2016	2017		





#### 2015 Municipal Comparison Total Water/Wastewater annual bill based on household consumption of 300 M<sup>3</sup> and Stormwater Charge

2015 vs. 2014 cost increases based on annual consumption of 300 m3 are per Municipal and Regional Council approved or draft rate increases.

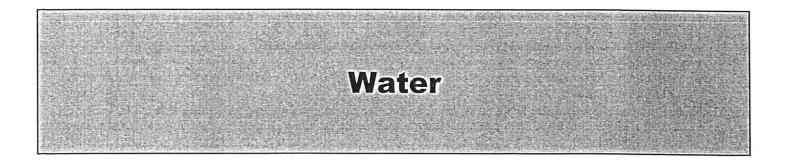
2015 rates not available 2014 used for comparative purposes

(All calculated amounts have been rounded to the nearest dollar).

Attachment 4



## Draft 2015-2018 Business Plan





#### 2015-2018 Business Plan

#### Business Overview

**Service Statement:** Describe the core activities and key outcomes and results for your department and how your department contributes to the quality of life of the citizens of Vaughan and/or how your department supports other departments.

Over the next four years the Public Works Commission will focus on demonstrating service delivery oversight through business effectiveness, citizen focus and relating types of funding sources to service outcomes.

#### Core Activities: Describe your regular business functions and responsibilities.

As the owners and operators of the City of Vaughan's water distribution systems, we are committed to:

- Providing safe drinking water to our residents and businesses
- · Complying with applicable legislation and regulations as related to the provision of safe drinking water
- Implementing and continually improving the effectiveness of our Drinking Water Quality Management Standards

Water Services activities include:

- Collaborates with Infrastructure Planning:
  - o To plan, build and inspect water infrastructure through development
  - o As Regional Liaison/allocation of water servicing capacity
  - o Implement Class EA studies and master planning
- Operation and maintenance of the water system, including, pipes, hydrants, service connections and booster stations
- Completes studies on hydraulic optimization through use of the water model
- Completes water loss and leak detections studies
- Develops citizen and business programs to promote water conservation
- Water billing payments to the Region of York
- Maintaining accreditation with the Ministry of the Environment through Drinking Water Quality Management Standards
- · Compliance with the Safe Drinking Water Act through training and certification of water operators
- Meeting all Federal and Provincial regulatory requirements for water quality, sampling and maintenance of water systems
- Collaborates with Capital Delivery and Asset Management:
  - To collect data on the condition of water assets
    - To plan for rehabilitation and replacement of aging infrastructure through prioritized capital budget development
    - o For Water capital project, design, construction and inspection

<u>Key Outcomes & Results:</u> Describe the outcomes your department strives to achieve for residents and/or other departments.

- 1. Provide safe drinking water to existing and new citizens and businesses of Vaughan
- 2. Ensure adequate supply for residential/commercial fire protection
- 3. Effective business management, citizen focus and staff commitment to delivery of water services
- 4. Maintain accreditation
- 5. A connected and efficient water system



#### 2015-2018 Business Plan

Link to Vaughan Vision 2020: Explain how your department links with the Vaughan Vision 2020 strategic goals and themes.

- 1. Enhance and Ensure Community Safety, Health and Wellness
  - Provides safe drinking water
- 2. Demonstrate Excellence in Service Delivery
  - Staff operates and maintains the water distribution system, and pursues studies to ensure the water distribution system is functioning as intended and deliver expected service to citizens by meeting the service standards
- 3. Lead and Promote Environmental Sustainability
  - Through promotion of water conservation the City supports environmental sustainability
- 4. Manage Corporate Assets
  - Condition assessment of water infrastructure and systems provides information and development
    of the capital budget and plan ensure water assets are maintained in a state of good repair
- 5. Ensure Financial Sustainability
  - Full cost recovery for water services in support of full program delivery and to meet Drinking Water Quality Management Standards
- 6. Manage Growth and Economic Well-being
  - Infrastructure planning for water assets identifies water needs to support growth
- 7. Support the Professional Development of Staff
  - Annual Ministry of the Environment required training and certification for water operations staff ensures Vaughan has a qualified and highly trained staff operating the water distribution system
  - Continue to invest is staff development, promoting a culture of continuous learning

Staffing Profile:	Full Time, Pa	rt Time and	l Overtime – l	Budgeted Amounts
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		Additional Resource Requests			
	2014 Base	2015	2016	2017	2018
Full Time	40.5	1			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
Part Time					
Overtime		and an inclusion of the			2

Note: Staffing profile includes staff who were moved due to re-organization. The business plan does not include staff from the Capital Delivery and Asset Management Department as one year of data is needed to develop a clear understanding of work completed within the lines of business. The Administrative Services section in Environmental Services Department serves all of the lines of business and a full review of Administrative Services will occur in 2015 which may impact FTE count for each line of business.



#### Water

#### 2015-2018 Business Plan

Service Profile

<u>Current Service State:</u> Outline departmental strengths/weaknesses, current challenges or constraints, risk issues and major successes. Where applicable, assess department's ability to meet expected service levels.

Past Success (2014):

- Development of a comprehensive Water Service Division to provide citizens, businesses and other stakeholders clear lines of communication for water related inquiries and comments
- Completion of Water Master Plan in 2014 has identified projects and studies to facilitate growth
- Collaboration with Region of York on common water issues through representation on the Water/Wastewater Steering Committee and development of common projects delivered through partnerships
- Upgrade Water model through Master Plan to be consistent with Region of York water model
- Fully accredited through external Ministry of the Environment Audit, received 100%
- Partnered with Walkerton Clean Water Centre to host MaintenanceFest
- No boil water advisories
- State of Local Infrastructure Report in accordance with Ministry of Infrastructure guidelines

#### Pressures:

- Intensification development applications are complex and require in depth analysis
- Region of York Water/Wastewater Master Plan update
- · Network growth puts pressure on maintaining current levels of service with existing staff
- Changing regulatory requirements
- Water loss impacts water billing
- Aging infrastructure requires funding for key maintenance activities and capital projects
- Vaughan Healthcare Precinct construction to be completed Fall 2015
- Future retirements indicate need for succession planning

#### Future Direction for the Service: Outline anticipated constraints, emerging issues, threats

and/or potential opportunities to improve the business.

- Asset Management activities will focus on the development of an operational and capital plan to maintain
  the water assets in a state of good repair
- Business case development to compare cost of providing various services in house or as a contracted service
- Water loss and leak detection analysis
- Link the end user billing to the water model for reflective consumption patterns
- Locate requests to be administered automatically
- In house training for water operators to meet compliance for Ministry of Environment licensing
- Training and development for new staff

#### Financial Impact: Scope out major financial impacts on the department currently and in the future.

- The City's Corporate Asset Management initiative will identify programmed repair, replacement and rehabilitation work which will put pressure on the capital budget, however, the asset management program is expected to reduce the number of emergency repairs
- As projects and programs are identified due to the increased focus on the water service as a comprehensive citizen focused and business effective service, this may identify the need for more resources to maintain levels of service



#### 2015-2018 Business Plan

- Water Conservation reducing revenues from sale of water
- Water activities have a component where it is 'reactive' and is difficult to predict. It should be recognized that variance (positive and negative) will be the norm.

#### Existing Funding Source

- Water Rate
- Development Charges

#### Work Plan

**Business Plan Objectives:** List up to three departmental initiatives and objectives for each year 2015-18 respectively. You can refer to the Strategic Initiatives list, master plans, or other corporate initiatives.

Department Objectives	Initiatives	Timeline	Additional Resources Required?
	2015 Initiative	S	
Comprehensive business and operational effectiveness for water service delivery	Implement 2014 Leakage Detection Program developed in partnership with the Region of York*	Q2	
	Reduce non-revenue water usage by implementing leak detection process and replacing water meters*	Q3	
	Implement water sampling stations	Q2	
	Update and maintain the water distribution model	Q4	Additional resources will be needed for capital project
Citizen and business focused water service delivery program	Collaborate with Developers to ensure Water infrastructure in place to meet growth needs	Ongoing	
	Vaughan Healthcare Precinct Phase 2 Construction	Q3	
	Collaborate with Access Vaughan to find efficiencies with Dispatch and improve citizen and business service	Q4	
Protect the environment	Continue to collaborate with the Region of York on a Region-wide Water Conservation Strategy**	Ongoing	
	Water Loss Monitoring and Control System*	Q2	



Department Objectives	Initiatives	Timeline	Additional Resources Required?
246, 2 1	Develop a Cross-Connection Control and Backflow Prevention By-law and Implementation program	Q3	Additional resources may be needed in future years to administer and enforce program
	Continue to reduce the amount of metallic watermain pipe by 6 km/year	Ongoing	
Perform effective asset management for better financial management	Collaborate with Corporate Asset Management Office to procure system tools, define levels of service and identify data gaps	Ongoing	
	2016 Initiative	S	
Comprehensive business and operational effectiveness for water service delivery	Continue to implement 2014 Leakage Detection Program developed in partnership with the Region of York*	Ongoing	nando znanistko un okono za skola znanistko za konsiste konsiste konsiste konsiste konsiste konsiste konsiste k
Service delivery	Continue to reduce non-revenue water usage by implementing leak detection process and replacing water meters*	Ongoing	
	Perform hydraulic analysis using the water model to identify operational constraints and program into capital budget	Q3	
	Business case development for review of contracted services vs. in house delivery of services	Q1	
Citizen and business focused water service delivery program	Resident water meter change out program	Q2	Additional resources will be required for a capital project
	Collaborate with Developers to ensure Water infrastructure in place to meet growth needs	Ongoing	
	Collaborate with Access Vaughan to find efficiencies with Dispatch and improve citizen and business service	Q1	
Protect the environment	Continue to collaborate with the Region of York on a Region-wide Water Conservation Strategy**	Ongoing	
	Implement Cross-Connection Control and Backflow Prevention By-law program	Q2	Additional resource requests may be required to administer and enforce the by-law



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Department Objectives	Initiatives	Timeline	Additional Resources Required?
	Continue to reduce the amount of metallic watermain pipe by 6 km/year	Ongoing	
Perform effective asset management for better financial management	Develop processes and programs to fill in data gaps to inform asset management activities	Ongoing	
	2017 Initiative	S	
Comprehensive business effectiveness for water service delivery	Continue working on Leakage Detection Program developed in partnership with the Region of York*	Ongoing	
	Business case development for review of contracted services vs. in house delivery of services	Ongoing	
	Implement recommendations from business case analysis from 2016	Q4	
Citizen and business focused water service delivery program	Continue water meter change out for residents	Ongoing	
	Collaborate with Developers to ensure Water infrastructure in place to meet growth needs	Ongoing	
Protect the environment	Continue to collaborate with the Region of York on a Region-wide Water Conservation Strategy**	Ongoing	
	Continue to reduce the amount of metallic watermain pipe by 6 km/year	Ongoing	
Perform effective asset management for better financial management	Collaborate with Corporate Asset Management Office to develop a list of prioritized projects based on complete and consistent data to ensure funds flow to the areas which need it most	Ongoing	
	Continue to find efficiencies in the delivery of water services	Ongoing	
	2018 Initiative	es	
Comprehensive business effectiveness for water service delivery	Continue business review to find efficiencies in service delivery	Ongoing	
Citizen and business focused water service	Continue our commitment to Vaughan's citizens and businesses	Ongoing	



Department Objectives	Initiatives	Timeline	Additional Resources Required?
delivery program	by continually improving clear communication lines for access to water services		
	Collaborate with Developers to ensure Water infrastructure in place to meet growth needs	Ongoing	
Protect the environment	Continue to reduce the amount of metallic watermain pipe by 6 km/year	Ongoing	
Perform effective asset management for better financial management	Collaborate with Corporate Asset Management Office to develop a list of prioritized projects based on complete and consistent data to ensure funds flow to the areas which need it most	Ongoing	



#### 2015-2018 Business Plan

#### Business Performance

An integral part of any strategic plan framework or business planning process is to be able to measure goal attainment. Performance Measures have been developed to support the strategic plan and monitor progress of key strategic and departmental measures. Performance Measures are separated into Strategic and Operational Measures.

Each department has selected performance metrics (operational measures) specific to its operations that measure effectiveness, efficiency and service quality. Strategic Measures are the identified overarching metrics that provide context to how well the City is doing overall aligned to VV2020 Goals and Objectives.

Performance metrics that have been identified as strategic measures are marked with an asterisk (\*) on the following table. This data is presented on the VV2020 dashboard.

Key Performance Indicators: The performance indicators should range from 2009 to 2013 and an estimate for 2014.

Performance Measures	2009	2010	2011	2012	2013	2014 (Estimated)
<b>EFFICIENCY: What/Ho</b>	w much d	o we do?	REAL PROPERTY	and a descent of		
% of Metallic Watermain pipe replaced	N/A	N/A	N/A	N/A	.05%	.1%
<b>EFFECTIVENESS: H</b>	ow well d	o we do it?				
# of watermain breaks per 100 km of distribution pipe		6	3	2.3	2.4	2.4
Daily water usage per person	274	n/a	n/a	214	205	200
SERVICE QUALITY:	Is anyone	e better off?	1955 AND TRANSPORT			
# of adverse water samples vs. total number of water samples taken*		0.0040	0.0065	0.0041	0.0091	0.0070
# of boil water advisories per year	1	0	0	0	0	0

<u>Key Performance Indicators Conclusion:</u> Provide an overall conclusion based on the indicators listed above in terms of current and estimated future performance and expected/target values.

- The annual program which started in 2013 to replace 6 km of metallic watermain pipe per year is on target
- Adverse samples are most often the result of contamination during the process of sampling. The standard
  response to an adverse water quality sample is to flush the watermain and re-sample to confirm that the
  water quality meets the regulatory requirements. The adverse samples were not indicative of the City's
  water supply, and the citizens and business of Vaughan were not at risk at any time. The number of
  adverse occurrences is less that the Provincial average for municipalities of similar size.
- The anode protection program in conjunction with the watermain replacement program have led to a





#### 2015-2018 Business Plan

decrease in the number of watermain breaks per 100 km

• Daily water usage continues to decline, and is likely the result of water conservation efforts. 2009 was used a benchmark, as data provided to the City for 2010 ad 2011 was not considered reliable.

Department Head Sign-off

Commissioner Sign-off

2/20/15 Date (mm/dd/yy)

Date (mm/dd/yy)

Attachment 4



## Draft 2015-2018 Business Plan





#### 2015-2018 Business Plan

#### Business Overview

<u>Service Statement:</u> Describe the core activities and key outcomes and results for your department and how your department contributes to the quality of life of the citizens of Vaughan and/or how your department supports other departments.

Over the next four years the Public Works Commission will focus on demonstrating service delivery oversight through business effectiveness, citizen focus and relating types of funding sources to service outcomes.

#### Core Activities: Describe your regular business functions and responsibilities.

Wastewater Services facilitates environmental stewardship through ensuring the wastewater collection system performs effectively and efficiently for the citizens and business of Vaughan and meets all regulatory requirements.

Wastewater Services activities include:

- Collaborates with Infrastructure Planning:
  - o To Plan, build and inspect wastewater infrastructure through development
  - o As Regional Liaison/allocation of wastewater servicing capacity
  - o Implement Class EA studies and master planning
- Operation and maintenance of the wastewater collection and conveyance system, including pipes, maintenance access holes, service connections, pump stations, and force mains
- Undertake studies on inflow and infiltration, flow monitoring and hydraulic optimization through wastewater modeling
- · Perform spill clean ups, conducts spills investigations and reports to the Ministry of the Environment
- · Perform sample analysis of industrial/commercial spills
- · Provide citizen service through investigation of sanitary sewer back-ups into homes
- · Citizen, business and stakeholder inquiries and dispatch of wastewater related activities
- Provide locates for businesses and citizens
- · Wastewater Ministry of the Environment certification and licensing for wastewater staff
- Collaborates with Capital Delivery and Asset Management:
  - To collect data on the condition of wastewater assets through closed circuit TV inspection and visual inspections for existing and new infrastructure
  - To plan for rehabilitation and replacement of aging infrastructure through prioritized capital budget development
  - o For Wastewater capital project, design, construction and inspection

#### <u>Key Outcomes & Results:</u> Describe the outcomes your department strives to achieve for residents and/or other departments.

- 1. Provide environmentally sustainable stewardship of the City's wastewater collections system by meeting regulatory requirements
- 2. Safe and effective conveyance and collection of wastewater
- 3. Effective business management, citizen focus and staff commitment to delivery of wastewater services
- 4. Maintain staff certification for operation of wastewater system



#### 2015-2018 Business Plan

Link to Vaughan Vision 2020: Explain how your department links with the Vaughan Vision 2020 strategic goals and themes.

- 1. Demonstrate Excellence in Service Delivery
  - Staff operates and maintains the wastewater collection system, and pursues studies to ensure the wastewater collection system is functioning as intended and delivery expected service to citizens
- 2. Lead and Promote Environmental Sustainability
  - The Sewer-Use By-law is intended to protect the environment
- 3. Manage Corporate Assets
  - Inspection of the wastewater collection provides information and development of the capital budget and plan ensure wastewater assets are maintained in a state of good repair
- 4. Ensure Financial Sustainability
  - Full cost recovery for wastewater services in support of an asset management program
- 5. Manage Growth and Economic Well-being
  - Infrastructure planning for wastewater assets identifies wastewater needs to support growth
- 6. Support the Professional Development of Staff
  - Annual Ministry of the Environment required training and licensing for wastewater operations staff ensures Vaughan has a qualified and highly trained staff operating the wastewater system
  - Continue to invest is staff development, promoting a culture of continuous learning

Staffing Profile: Full Time, Part Time and Overtime – Budgeted Amounts

		A	dditional Reso	ource Reques	ts
	2014 Base	2015	2016	2017	2018
Full Time	19.8	.5			
Part Time				5 0 5	
Overtime			-		1

Note: Staffing profile includes staff who were moved due to re-organization. The business plan does not include staff from the Capital Delivery and Asset Management Department as one year of data is needed to develop a clear understanding of work completed within the lines of business. The Administrative Services section in Environmental Services Department serves all of the lines of business and a full review of Administrative Services will occur in 2015 which may impact FTE count for each line of business.



#### 2015-2018 Business Plan

Service Profile

<u>Current Service State:</u> Outline departmental strengths/weaknesses, current challenges or constraints, risk issues and major successes. Where applicable, assess department's ability to meet expected service levels.

Past Success (2014):

- Development of a comprehensive Wastewater Service Division to provide citizens, businesses and other stakeholders clear lines of communication for wastewater related inquiries and comments
- Completion of Wastewater Master Plan in 2014 has identified projects and studies to facilitate growth
- Collaboration with Region of York on common water issues through representation on the Water/Wastewater Steering Committee and development of common projects delivered through partnerships
- Initiated the Inflow and Infiltration pilot project with development
- Upgrade Wastewater model through Master Plan to be consistent with Region of York wastewater model
- Sewer Use By-Law update to protect the environment and wastewater infrastructure
- Development of a programmed 5 year plan for sanitary inspection and flushing defined for effective condition assessment data collection
- Active participants in Region of York North East Sanitary Trunk EA
- Dedicated staff for emergency response
- Cross connection identification on within public property
- State of Local Infrastructure Report in accordance with Ministry of Infrastructure guidelines

#### Pressures:

- Intensification development applications are complex and require in depth analysis
- Region of York Water/Wastewater Master Plan update
- · Network growth puts pressure on maintaining current levels of service with existing staff
- Inflow and infiltration reduction
- Changing regulatory requirements
- Industrial and commercial discharge impact on infrastructure
- System performance due to non-compatible consumer products and Fogs, Oils and Grease
- Antiquated SCADA system requires manual oversight of system as technology has gone beyond life span
- Vaughan Healthcare Precinct construction to be completed Fall 2015
- Aging infrastructure in older areas requires more maintenance and possible rehabilitation and replacement
- Future retirements indicate need for succession planning

#### <u>Future Direction for the Service</u>: Outline anticipated constraints, emerging issues, threats and/or potential opportunities to improve the business.

- Asset Management activities will focus on the development of an operational and capital plan to maintain the wastewater assets in a state of good repair
- Business case development to compare cost of providing various services in house or as a contracted service
- Inflow and infiltration program and flow monitoring program will provide for better overall system hydraulic performance information
- Working towards elimination of cross connections between storm and sanitary on public property
- Sewer Use By-Law and enforcement program will identify illegal dischargers and help protect the wastewater infrastructure and the environment



#### 2015-2018 Business Plan

- · Locate requests to be administered automatically
- In house training for water operators to meet compliance for Ministry of Environment licensing
- Training and development for staff

#### Financial Impact: Scope out major financial impacts on the department currently and in the future.

- Increases in Regional billing for wastewater services will necessitate matching increases to municipal billing rates and revenues
- The City's Corporate Asset Management initiative will identify programmed repair, replacement, rehabilitation work and preventative maintenance which will put pressure on the capital budget, however, the asset management program is expected to reduce the overall life cycle costs of the infrastructure
- As projects and programs are identified due to the increased focus on the wastewater service as a comprehensive citizen focused and business effective service, this may identify the need for more resources to maintain levels of service
- Wastewater activities have a component where it is 'reactive' and is difficult to predict. It should be recognized that variance (positive and negative) will be the norm.
- Administration and enforcement of Sewer Use By-Law may require resources in future

#### Existing Funding Source

- Wastewater Rate
- Development Charges

#### Work Plan

Business Plan Objectives: List up to three departmental initiatives and objectives for each year 2015-18 respectively. You can refer to the Strategic Initiatives list, master plans, or other corporate initiatives.

Department Objectives	Initiatives	Timeline	Additional Resources Required?
	2015 Initiative	s	
Comprehensive business and operational effectiveness for wastewater service	Develop City Wide Inflow and Infiltration Monitoring and Reduction Strategy*	Q2	Additional resources may be required when full scope of strategy is developed
delivery	Develop Flow Monitoring and Sewer Capacity Analysis strategy	Q2	No
	Update and maintain the wastewater model for hydraulic optimization and growth capacity analyses for comprehensive system analysis	Q4	No
	Continue procurement and implementation of SCADA system	Q1	Capital project already available
Citizen and business focused wastewater	Collaborate with Developers to ensure Wastewater infrastructure in	Ongoing	No



Department Objectives	Initiatives	Timeline	Additional Resources Required?
service delivery program	place to meet growth needs*		
	Vaughan Healthcare Precinct Phase 2 Construction	Q1	
	Collaborate with Access Vaughan to find efficiencies with Dispatch and improve citizen and business service	Q4	No
	Promote Downspout Disconnection Program and Backflow Preventer Programs	Ongoing	No
Protect the environment	Complete Sewer Use By-Law and communicate to stakeholders	Q4	Completion of sewer use by- law may indicate the need for more resources to effectively promote compliance with the by-law and for sewer monitoring and inspection of industrial and commercial dischargers
	Collaborate with Region on monitoring of industrial dischargers	Q1	No
Perform effective asset management for better financial management	Collaborate with Corporate Asset Management Office to procure system tools, define levels of service and identify data gaps	Ongoing	
	Implement pipe scoring system in GIS to easily identify pipe which needs to be repaired or replaced	Q1	
	2016 Initiative	S	
Comprehensive business and operational effectiveness for	Implement Inflow and Infiltration Strategy*	Q1	
wastewater service delivery	Implement Flow Monitoring Strategy	Q1	
	Analyze wastewater collection system effectiveness and program into capital budget any hydraulic improvement initiatives	Q3	
Citizen and business focused wastewater service delivery program	Collaborate with Developers to ensure Wastewater infrastructure in place to meet growth needs*	Q1	
	Continue to collaborate with Access		



Department Objectives	Initiatives	Timeline	Additional Resources Required?
	Vaughan to find efficiencies with Dispatch and improve citizen and business service	Q2	
	Implement citizen focused strategy*		
Protect the environment	Complete Sewer Use By-Law and communicate to stakeholders	Q4	Completion of sewer use by- law may indicate the need for more resources to effectively promote compliance with the by-law and for sewer monitoring and inspection of industrial and commercial dischargers
	Collaborate with Region on monitoring of industrial dischargers	Q1	No
Perform effective asset management for better financial management	Develop processes and programs to fill in data gaps to inform asset management activities	Ongoing	
	2017 Initiative	S	
Comprehensive business and operational effectiveness for wastewater service delivery	Implement Inflow and Infiltration Strategy* Update flow monitoring data into wastewater model		
	Analyze wastewater collection system effectiveness and program into capital budget any hydraulic improvement initiatives		
Citizen and business focused wastewater service delivery program	Develop citizen and business focused educational program with respect to Fats, Oils and Grease and other 'non-flushables'	Ongoing	
Protect the environment	Collaborate with Region on monitoring of industrial dischargers	Ongoing	No
Perform effective asset management for better financial management	Collaborate with Corporate Asset Management Office to develop a list of prioritized projects based on complete and consistent data to ensure funds flow to the areas which need it most	Ongoing	
	2018 Initiative	es	
Comprehensive business and operational	Implement Inflow and Infiltration Strategy*	Ongoing	



Department Objectives	Initiatives	Timeline	Additional Resources Required?
effectiveness for wastewater service delivery	Develop capital plan to address inflow and infiltration issues	Q3	
	Analyze wastewater collection system effectiveness and program into capital budget any hydraulic improvement initiatives	Ongoing	
Citizen and business focused wastewater service delivery program	Continue to promote citizen and business focused educational program with respect to Fats, Oils and Grease and other 'non- flushables'	Ongoing	
Protect the environment	Collaborate with Region on monitoring of industrial dischargers	Q1	
Perform effective asset management for better financial management	Collaborate with Corporate Asset Management Office to develop a list of prioritized projects based on complete and consistent data to ensure funds flow to the areas which need it most	Ongoing	



#### 2015-2018 Business Plan

#### Business Performance

An integral part of any strategic plan framework or business planning process is to be able to measure goal attainment. Performance Measures have been developed to support the strategic plan and monitor progress of key strategic and departmental measures. Performance Measures are separated into Strategic and Operational Measures.

Each department has selected performance metrics (operational measures) specific to its operations that measure effectiveness, efficiency and service quality. Strategic Measures are the identified overarching metrics that provide context to how well the City is doing overall aligned to VV2020 Goals and Objectives.

Performance metrics that have been identified as strategic measures are marked with an asterisk (\*) on the following table. This data is presented on the VV2020 dashboard.

Key Performance Indicators: The performance indicators should range from 2009 to 2013 and an estimate for 2014.

Performance Measures	2009	2010	2011	2012	2013	2014 (Estimated)
<b>EFFICIENCY: What/Ho</b>	w much do	we do?				
Operating Cost per Km of Wastewater Collection System	\$4,722.00	\$4,273.00	\$4,373.00	\$4,575.00	\$4,600.00	
<b>EFFECTIVENESS: H</b>	ow well do	we do it?	有关的复数			
Number of Sewer main Backups per 100 km of Wastewater Main in a Year	0.00	0.48	0.00	0.12		
% Sanitary sewer inspected with a score of Fair(Grade 3) or better*	n/a	n/a	n/a	n/a	n/a	75%
SERVICE QUALITY:	Is anyone	better off?				de ser a set a
% response time for spill clean-up within established parameters*					100%	100%

Key Performance Indicators Conclusion: Provide an overall conclusion based on the indicators listed above in terms of current and estimated future performance and expected/target values.

- Key performance indicators will be further evolved through the Corporate Performance Measurement
   Initiative
- Integration of Wastewater services will bring efficiencies which will be reflected in the metrics
- New programs, such as inflow and infiltration, flow monitoring, hydraulic optimization and the implementation of the wastewater master plan will provide for a comprehensive wastewater service delivery and improve system knowledge for effective asset management



Department Head Sign-off

Commissioner Sign-off

2120115

Date (mm/dd/yy)

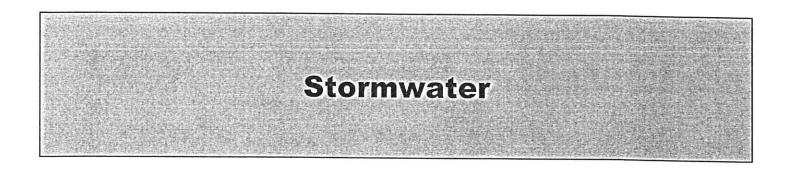
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Date (mm/dd/yy

Attachment 4



## Draft 2015-2018 Business Plan





#### 2015-2018 Business Plan

#### Business Overview

<u>Service Statement:</u> Describe the core activities and key outcomes and results for your department and how your department contributes to the quality of life of the citizens of Vaughan and/or how your department supports other departments.

Over the next four years the Public Works Commission will focus on demonstrating service delivery oversight through business effectiveness, citizen focus and relating types of funding sources to service outcomes.

#### Core Activities: Describe your regular business functions and responsibilities.

Stormwater Services facilitates environmental stewardship through ensuring maintenance of the natural hydrologic cycle, prevent an increased risk to flooding, prevent undesirable stream erosion, and protect water quality.

Stormwater Services activities include:

- Collaborates with Infrastructure Planning:
  - o To plan, build and inspect stormwater infrastructure through development
  - o Implement Class EA studies and master planning
- Identify deficiencies in storm ponds and system for new development
- Operation, maintenance and inspection of the stormwater system, including storm ponds, pipes, catch basins, super catch basins, service connections, culverts, inlets, outlets and one pump station
- Inspection of streams and rivers as required
- Overland flow routes, erosion control and water quality are maintained and monitored
- Completes studies on hydraulic optimization through use of the stormwater model
- Completes drainage studies and develops flood mitigation strategies
- Provides citizen service through investigation of floods due to climate change, citizen, business and stakeholder inquiries and dispatch of stormwater related activities
- Inspects performance of storm ponds per Certificate of Approval
- Monitor performance of the storm system through dedicated 24/7, on call staff
- Periodic samples for water quality in ponds
- Provides spill containments of industrial discharges at ponds
- Collaborates with Capital Delivery and Asset Management:
  - To collect data on the condition of stormwater assets through closed circuit TV inspection and visual inspections
  - To plan for rehabilitation and replacement of aging infrastructure through prioritized capital budget development
  - o For Stormwater capital project, design, construction and inspection

#### <u>Key Outcomes & Results</u>: Describe the outcomes your department strives to achieve for residents and/or other departments.

- 1. Mitigate flooding impacts on private and public property
- 2. Preserve natural heritage with effective stormwater management strategies
- 3. Effective business management, citizen focus and staff commitment to delivery of stormwater services
- 4. Water quantity and quality in ponds, rivers and streams



#### 2015-2018 Business Plan

Link to Vaughan Vision 2020: Explain how your department links with the Vaughan Vision 2020 strategic goals and themes.

- 1. Demonstrate Excellence in Service Delivery
  - Staff operates and maintains the stormwater system, and pursues studies to ensure the stormwater system is functioning as intended and deliver expected service to citizens
- 2. Lead and Promote Environmental Sustainability
  - The Sewer-Use By-law is intended to protect the environment
- 3. Manage Corporate Assets
  - Inspection of the stormwater infrastructure and systems provides information and development of the capital budget and plan ensure stormwater assets are maintained in a state of good repair
- 4. Ensure Financial Sustainability
  - Full cost recovery for stormwater services in support of full program delivery
- 5. Manage Growth and Economic Well-being
  - Infrastructure planning for stormwater assets identifies stormwater needs to support growth
- 6. Support the Professional Development of Staff
  - Continue to invest is staff development, promoting a culture of continuous learning

#### Staffing Profile: Full Time, Part Time and Overtime – Budgeted Amounts

			Additional Res	ource Requests	<b>;</b>
	2014 Base	2015	2016	2017	2018
Full Time	17.97	.5		AN HINGS IN A S	
Part Time					175 3.12
Overtime		4	1 2 2 1		

Note: The business plan does not include staff from the Capital Delivery and Asset Management Department as one year of data is needed to develop a clear understanding of work completed within the lines of business. The Administrative Services section in Environmental Services Department serves all of the lines of business and a full review of Administrative Services will occur in 2015 which may impact FTE count for each line of business.



#### 2015-2018 Business Plan

Service Profile

<u>Current Service State:</u> Outline departmental strengths/weaknesses, current challenges or constraints, risk issues and major successes. Where applicable, assess department's ability to meet expected service levels.

Past Success (2014):

- Development of a comprehensive Stormwater Service Division to provide citizens, businesses and other stakeholders clear lines of communication for stormwater related inquiries and comments
- Completion of Stormwater Master Plan in 2014 has identified projects and studies to facilitate growth
- Initiated Napa Valley Stormwater Pond Flood Investigation
- Bowes Road and Franklin Avenue Flood Remediation Plan
- Sewer Use By-Law update to protect the environment
- Development of a programmed 5 year plan for sanitary inspection and flushing defined for effective condition assessment data collection
- Protecting past flooded areas by creating storage and improvement of system
- Stormwater Infrastructure Funding Study initiated
- State of Local Infrastructure Report in accordance with Ministry of Infrastructure guidelines

#### Pressures:

- Climate change more short, intense storms
- Network growth puts pressure on maintaining current levels of service with existing staff
- Potential changing regulatory requirements
- Pond Maintenance requirements for water quality and storm management
- Citizen interest in climate change impacts and expectations from the City
- Environmental and conservation authority guidelines
- Vaughan Healthcare Precinct construction to be completed Fall 2015
- Aging infrastructure requires funding for key maintenance activities and capital projects
- Future retirements indicate need for succession planning

<u>Future Direction for the Service</u>: Outline anticipated constraints, emerging issues, threats and/or potential opportunities to improve the business.

- Asset Management activities will focus on the development of an operational and capital plan to maintain the wastewater assets in a state of good repair
- Program changes and level of service development will increase oversight of stormwater program
- Hydraulic system analysis through modeling
- Additional storm water ponds maintenance will require programmed plan
- Develop water quality sampling program at ponds inlets and outlets
- Training and development for staff
- Low impact development to manage rain water on site
- Implementation of stormwater master plan

#### Financial Impact: Scope out major financial impacts on the department currently and in the future.

- Stormwater Infrastructure Funding Study will identify a financial model to fund stormwater program needs
- The City's Corporate Asset Management initiative will identify programmed repair, replacement, rehabilitation work and preventative maintenance which will put pressure on the capital budget, however, the asset management program is expected to reduce overall life cycle costs of the infrastructure
- · As projects and programs are identified due to the increased focus on the stormwater service as a



#### 2015-2018 Business Plan

comprehensive citizen focused and business effective service, this may identify the need for more resources to maintain levels of service

• Stormwater activities have a component where it is 'reactive' and is difficult to predict. It should be recognized that variance (positive and negative) will be the norm.

Existing Funding Source

- Wastewater Rate
- Development Charges

#### Work Plan

Business Plan Objectives: List up to three departmental initiatives and objectives for each year 2015-18 respectively. You can refer to the Strategic Initiatives list, master plans, or other corporate initiatives.

Department Objectives	Initiatives	Timeline	Additional Resources Required?
	2015 Initiative	S	
Comprehensive business and operational effectiveness for stormwater service delivery	Implement program delivery and levels of service identified in the stormwater infrastructure funding study	Q1	
Citizen and business focused stormwater service delivery program	<ul> <li>Facilitate construction of VMC stormwater infrastructure*</li> <li>Complete Black Creek Renewal Study EA to set stage for major redevelopment in VMC*</li> <li>Commence detailed design of VMC NE Stormwater Management Pond</li> </ul>	Q1	No
	Vaughan Healthcare Precinct Phase 2 Construction	Q1	No
	Collaborate with Access Vaughan to find efficiencies with Dispatch and improve citizen and business service	Q2	No
	Promote Downspout Disconnection Program and Backflow Preventer Programs	Q4	
	Gallanough Park Storm Pond EA	Q1	
	Develop Flood Response Program	Q2	
Protect the environment	Complete Sewer Use By-Law and communicate to stakeholders	Q4	Completion of sewer use by- law may indicate the need for more resources to effectively



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#### Stormwater

Department Objectives	Initiatives	Timeline	Additional Resources Required? promote compliance with the by-law and for sewer monitoring and inspection of industrial and commercial dischargers
	<ul> <li>Complete Stormwater By-Law**</li> <li>Stormwater Infrastructure Funding Study</li> </ul>	Q3	
	Continue to work with other partners to implement policies and undertake activities that support high water quality in Vaughan's watersheds**	Ongoing	
	Support the implementation of initiatives to reduce run-off in park facilities, trail systems and selected City of Vaughan parking facilities**	Ongoing	
Perform effective asset management for better financial management	Implement funding model identified in Stormwater Infrastructure Funding Study for 2016 Budget	Q3	No
	Collaborate with Corporate Asset Management Office to procure system tools, define levels of service and identify data gaps	Q1	No
	Continue to find efficiencies in the delivery of stormwater services	Q1	No
	2016 Initiative	S	
Comprehensive business and operational effectiveness for stormwater service delivery	Update the stormwater model	Q2	
Citizen and business focused stormwater service delivery program	Advance the design and construction of the Black Creek Channel and SWMP	Q4	
	Develop education materials for citizens to reduce run off from properties and inflow into the sanitary sewer system	Q2	
	Gallanough Park Stormwater Pond construction	Q2	



Department Objectives	Initiatives	Timeline	Additional Resources Required?
	Erosion and Flood Mitigation projects for Rainbow Creek as detailed in the Stormwater Master Plan	Q4	
Protect the environment	Continue to work with other partners to implement policies and undertake activities that support high water quality in Vaughan's watersheds**	Ongoing	
	Support the implementation of initiatives to reduce run-off in park facilities, trail systems and selected City of Vaughan parking facilities**	Ongoing	
Perform effective asset management for better financial management	Develop processes and programs to fill in data gaps to inform asset management activities	Ongoing	
	2017 Initiative	S	
Comprehensive business and operational effectiveness for	Develop prioritized maintenance list for stormwater ponds and implement	Q2	
stormwater service delivery	Analyze stormwater collection system effectiveness and program into capital budget any hydraulic improvement initiatives	Ongoing	
Citizen and business focused stormwater service delivery program	Advance the design and construction of the Black Creek Channel and SWMP	Q1	
	Education and Outreach	Ongoing	
Protect the environment	Continue to work with other partners to implement policies and undertake activities that support high water quality in Vaughan's watersheds**	Ongoing	
r.	Support the implementation of initiatives to reduce run-off in park facilities, trail systems and selected City of Vaughan parking facilities**	Ongoing	
Perform effective asset management for better financial management	Collaborate with Corporate Asset Management Office to develop a list of prioritized projects based on complete and consistent data to ensure funds flow to the areas which need it most	Ongoing	
	2018 Initiative	S.	



Department Objectives	Initiatives	Timeline	Additional Resources Required?
Comprehensive business and operational effectiveness for	Implement studies identified in Stormwater Master Plan	Q2	
stormwater service delivery	Stormwater pond maintenance	Annual program	
Citizen and business focused stormwater service delivery program	Education and Outreach	Ongoing	
Protect the environment	Continue to work with other partners to implement policies and undertake activities that support high water quality in Vaughan's watersheds**	Ongoing	
	Support the implementation of initiatives to reduce run-off in park facilities, trail systems and selected City of Vaughan parking facilities**	Ongoing	
Perform effective asset management for better financial management	Collaborate with Corporate Asset Management Office to develop a list of prioritized projects based on complete and consistent data to ensure funds flow to the areas which need it most	Ongoing	



#### 2015-2018 Business Plan

#### Business Performance

An integral part of any strategic plan framework or business planning process is to be able to measure goal attainment. Performance Measures have been developed to support the strategic plan and monitor progress of key strategic and departmental measures. Performance Measures are separated into Strategic and Operational Measures.

Each department has selected performance metrics (operational measures) specific to its operations that measure effectiveness, efficiency and service quality. Strategic Measures are the identified overarching metrics that provide context to how well the City is doing overall aligned to VV2020 Goals and Objectives.

Performance metrics that have been identified as strategic measures are marked with an asterisk (\*) on the following table. This data is presented on the VV2020 dashboard.

<u>Key Performance Indicators:</u> The performance indicators should range from 2009 to 2013 and an estimate for 2014.

Performance Measures	2009	2010	2011	2012	2013	2014 (Estimated)
<b>EFFICIENCY: What/Ho</b>	w much de	o we do?		a star an	Carlo Carlos a	
Operating Cost per Km of stormwater Collection System		\$1,802.00	\$1,663.00	\$1,877.00	\$1,984.00	\$2,066.00
Total Number of ponds assumed each year	3	2	3	5	5	2
<b>EFFECTIVENESS: H</b>	ow well d	o we do it?				
% storm sewer inspected with a score of fair or better*	n/a	n/a	n/a	n/a	n/a	70%
SERVICE QUALITY:	Is anyone	better off?	以各定的社会之外			
% areas with stormwater controls	92%	n/a	n/a	n/a	92%	

<u>Key Performance Indicators Conclusion:</u> Provide an overall conclusion based on the indicators listed above in terms of current and estimated future performance and expected/target values.

- Key performance indicators will be further evolved through the Corporate Performance Measurement
  Initiative
- Integration of Stormwater services will bring efficiencies which will be reflected in the metrics
- Comprehensive CCTV inspection program started in 2014 will provide data for future metrics
- Stormwater controls are reported every 4 years



2015-2018 Business Plan

2/20/15 Date (mm/dd/yy)

Department Head Sign-off

Date (mm/dd/yy

commissioner Sign-off

#### The Corporation of the City of Vaughan 2015 Draft Budget and 2016 - 2018 Plan Water Division

	2015		2016		2017		2018	%
Description	Draft		Forecast		Forecast		Forecast	of
	Budget							Sales
Water Revenues								
Residential Billings	30,871,725		34,119,817		37,385,432		40,880,596	
Commercial Billings	20,504,350		22,834,880		24,941,700		27,187,701	
Other	226,425		334,281		443,173		565,893	
	\$51,602,500		\$57,288,979		\$62,770,306		\$68,634,190	8
Water Purchases								
Metered Water Purchases	32,481,717		36,356,042		40,307,649		44,690,926	
Non-Revenue Water	4,853,590	13.0%	5,432,512	13.0%	6,022,982	13.0%	6,677,954	13.0%
	\$37,335,307		\$41,788,554		\$46,330,631		\$51,368,880	
GROSS MARGIN	\$14,267,193	27.6%	\$15,500,425	27.1%	\$16,439,675	26.2%	\$17,265,310	25.2%
Other Revenues								
Installation and Service Fees	600,000		725,000		850,000		975,000	
Sundry	6,120		6,120		6,120		6,120	
Interest	500,000		550,000		612,500		687,500	
	\$1,106,120	2.1%	\$1,281,120	2.2%	\$1,468,620	2.3%	\$1,668,620	2.4%
Expenses								
Maintenance and Installation Cost General Administration	5,929,985 2,233,459		6,704,510 2,341,239		6,734,723 2,374,638		6,758,694	
Joint Service Costs	593,842		611,657		2,374,038		2,397,101 648,907	
Debenture Payments	213,845		175,180		000,001		0+0,507	
Administration Overhead	486,460		501,054		516,085		531,568	
Insurance Allocation	312,070	10 - 11	330,794		353,950		368,108	
	\$9,769,661	18.9%	\$10,664,434	18.6%	\$10,609,404	16.9%	\$10,704,378	15.6%
LIFECYCLE CONTRIBUTION - RESERVE	\$5,603,652	10.9%	\$6,117,111	10.7%	\$7,298,891	11.6%	\$8,229,551	12.0%

#### The Corporation of the City of Vaughan 2015 Draft Budget and 2016 - 2018 Plan Wastewater/ Stormwater Division

		2015		2016		2017		2018	%
Descripti	on	Draft		Forecast		Forecast		Forecast	of
		Budget							Sales
Wastewa	ter /Stormwater Revenues								
	Residential Billings	38,606,530		45,102,006		51,234,481		58,031,042	
	Commercial Billings	26,714,220		31,210,964		35,605,440		40,500,191	
	Other	171,000		200,000		250,000		300,000	
		\$65,491,750		\$76,512,970		\$87,089,920		\$98,831,232	ê.
Wastewa	ter/Stormwater Expenses								
	Regional Treatment Charges	\$48,704,975		\$55,067,888		\$61,054,844		\$67,693,505	
GROSS	MARGIN	\$16,786,775	25.6%	\$21,445,082	28.0%	\$26,035,077	29.9%	\$31,137,727	31.5%
Other Rev	venues								
	Local Improvements	240,500		162,535		20,580		20,580	
	Sundry	3,800		3,800		3,800		3,800	
	Installation and Service Fees	161,000		211,000		261,000		311,000	
	Interest	550,000		618,750		712,500		831,250	
		\$955,300	1.5%	\$996,085	1.3%	\$997,880	1.1%	\$1,166,630	1.2%
Expenses	5								
	Maintenance and Installation Cost	3,993,741		4,758,912		4,769,405		4,778,544	
	General Administration	1,385,217		1,402,498		1,389,478		1,407,733	
	Storm Sewer Maintenance	3,507,308		3,600,235		3,615,337		3,625,969	
	Joint Service Costs	697,118		718,032		739,572		761,760	
	Debenture Payments	219,927		141,375		0		0	
	Administration Overhead	383,993		395,513		407,378		419,600	
	Insurance Allocation	351,909	10	373,024		399,135		415,101	
		\$10,539,213	16.1%	\$11,389,588	14.9%	\$11,320,305	13.0%	\$11,408,705	11.5%
	LE CONTRIBUTION - RESERVE	\$7,202,862	11.0%	\$11,051,580	14.4%	\$15,712,652	18.0%	\$20,895,652	21.1%

Attachment 6

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# 2015 - 2018 Capital Budget By Funding Source - Water Reserve

Rank B	Budget Year I	Year Identified Dept		Number	Project Title	Project Type	Amount	Cumm. Total	Budget Impact Co-Funding	
	2015	2015 C	cD CD	CD-1920-15	2015 Road Rehabilitation and Watermain Replacement - Phase 3	Infrastructure Replacement	2,518,900	2,518,900	0 Gas Tax Reserve \$1,390,000;	
	2015	2015 C	CD C	CD-2016-15	2016 Watermain Replacement	Infrastructure Replacement	317,300	2,836,200	0	
	2015	2015 C	cD	CD-2019-15	2017 Watermain Replacement	Infrastructure Replacement	634,500	3,470,700	0	
935	2015	2014 C	CD	EN-1914-14	2015 Road Rehabilitation and Watermain Replacement - Phase 1	Infrastructure Replacement	743,897	4,214,597	0 Debenture Financing \$805,888;	ä
10	2015	2014 CI	сD	EN-1915-14	2015 Road Rehabilitation and Watermain Replacement - Phase 2	Infrastructure Replacement	2,174,570	6,389,167	0 Debenture Financing \$510,084;	4;
	2015	2013 CI	CD	EN-1944-13	2014 Road Rehabilitation and Watermain Replacement - Phase 3	Infrastructure Replacement	692,200	7,081,367	0 Debenture Financing \$543,800;	:0
	2015	2013 EV		EV-2063-15	ICI Water Meter Replacement Program	Infrastructure Replacement	206,000	7,287,367	0	
	2015	2015 EV		EV-2076-15	Sample Stations	New Equipment	154,500	7,441,867	0	
63	2015	2015 EV		EV-2078-15	SCADA System Implementation	New Equipment	61,800	7,503,667	0 Sewer Reserve \$350,200;	
	2015	2015 FL		FL-5513-15	PW-WATER - Additional Quad cab pickup	New Equipment	51,500	7,555,167	70,000	
	2015	2015 FL		FL-5514-15	PW - WATER - Additional Quad Cab Pickup	New Equipment	51,500	7,606,667	70,000	
						2015 Budget Line				
	2016	2016 CD		CD-2002-16	2018 Watermain Replacement	Infrastructure Replacement	566,500	566,500	0	
	2016	2015 CD		CD-2016-15	2016 Watermain Replacement	Infrastructure Replacement	2,673,900	3,240,400	0	
	2016	2013 EV		EV-2063-15	ICI Water Meter Replacement Program	Infrastructure Replacement	206,000	3,446,400	0	
					8	2016 Forecast Line				
	2017	2015 CD		CD-2019-15	2017 Watermain Replacement	Infrastructure Replacement	5,155,200	5,155,200	0	
11	2017	2013 EV		EV-2063-15	ICI Water Meter Replacement Program	Infrastructure Replacement	206,000	5,361,200	0	
					8	2017 Forecast Line				
N.	2018	2016 CD		CD-2002-16	2018 Watermain Replacement	Infrastructure Replacement	4,584,200	4,584,200	O	6
					2	2018 Forecast Line				

Feb 17, 2015 01:35 PM

2015 - 2018 Capital Budget

Page 1

Attachment 6

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# 2015 - 2018 Capital Budget By Funding Source - Water Reserve

Rank	Budget Year I	Year Identified Dept	593월	Number	Project Title	Project Type	Amount	Cumm. Total	Operating Budget Impact	Co-Funding	TCA
	2015	2015 CI	CD	CD-1920-15	2015 Road Rehabilitation and Watermain Replacement - Phase 3	Infrastructure Replacement	2,518,900	2,518,900	0 Gas Tax Re	Gas Tax Reserve \$1,390,000;	7
	2015	2015 CI	8	CD-2016-15	2016 Watermain Replacement	Infrastructure Replacement	317,300	2,836,200	0		×
	2015	2015 CI	8	CD-2019-15	2017 Watermain Replacement	Infrastructure Replacement	634,500	3,470,700	0		≻
	2015	2014 CI	CD	EN-1914-14	2015 Road Rehabilitation and Watermain Replacement - Phase 1	Infrastructure Replacement	743,897	4,214,597	0 Debenture I	0 Debenture Financing \$805,888;	≻
	2015	2014 CI	CD	EN-1915-14	2015 Road Rehabilitation and Watermain Replacement - Phase 2	Infrastructure Replacement	2,174,570	6,389,167	0 Debenture	0 Debenture Financing \$510,084;	۲
	2015	2013 CI	CD	EN-1944-13	2014 Road Rehabilitation and Watermain Replacement - Phase 3	Infrastructure Replacement	692,200	7,081,367	0 Debenture	0 Debenture Financing \$543,800;	≻
	2015	2013 EV		EV-2063-15	ICI Water Meter Replacement Program	Infrastructure Replacement	206,000	7,287,367	0		¥
	2015	2015 EV		EV-2076-15	Sample Stations	New Equipment	154,500	7,441,867	0		z
	2015	2015 EV		EV-2078-15	SCADA System Implementation	New Equipment	61,800	7,503,667	0 Sewer Rest	0 Sewer Reserve \$350,200;	≻
	2015	2015 FL		FL-5513-15	PW-WATER - Additional Quad cab pickup	New Equipment	51,500	7,555,167	70,000		۲
	2015	2015 FL		FL-5514-15	PW - WATER - Additional Quad Cab Pickup	New Equipment	51,500	7,606,667	70,000		۶
						2015 Budget Line					
	2016	2016 CD		CD-2002-16	2018 Watermain Replacement	Infrastructure Replacement	566,500	566,500	0		≻
	2016	2015 CD		CD-2016-15	2016 Watermain Replacement	Infrastructure Replacement	2,673,900	3,240,400	0		۲
v0+1/	2016	2013 EV		EV-2063-15	ICI Water Meter Replacement Program	Infrastructure Replacement	206,000	3,446,400	0		≻
					8	2016 Forecast Line					
	2017	2015 CD		CD-2019-15	2017 Watermain Replacement	Infrastructure Replacement	5,155,200	5,155,200	0		×
-1777 	2017	2013 EV		EV-2063-15	ICI Water Meter Replacement Program	Infrastructure Replacement	206,000	5,361,200	0		≻
-					8	2017 Forecast Line					
	2018	2016 CD		CD-2002-16	2018 Watermain Replacement	Infrastructure Replacement	4,584,200	4,584,200	0		≻
					2	2018 Forecast Line					

Feb 17, 2015 01:35 PM

2015 - 2018 Capital Budget

Page 1



#### CITY OF VAUGHAN 2015 DRAFT OPERATING BUDGET WATER AND WASTEWATER SERVICE CHARGE AMMENDMENTS

ITEM	SERVICE CHARGES
<ul> <li>Turn-off</li> <li>During Working Hours (Monday to Friday from 8:00 a.m. to 3:30 p.m.)</li> <li>Other than Working Hours Including Weekends and Holidays</li> </ul>	\$46.00 \$110.00
<ul> <li>Turn-on</li> <li>During Working Hours (Monday to Friday from 8:00 a.m. to 3:30 p.m.)</li> <li>Other than Working Hours Including Weekends and Holidays</li> </ul>	\$46.00 \$110.00
Water Meters (application for meters and temporary water fees)	<ul> <li>\$ at cost (varies with number of meters to be installed, size of meters, administration costs and contract installation costs)</li> <li>Full 3/4" \$ 321.00</li> <li>1" \$ 394.00</li> <li>1.5" Omni C<sup>2</sup> \$1,938.00</li> <li>2" Omni C<sup>2</sup> \$2,055.00</li> <li>3" Omni C<sup>2</sup> \$2,750.00</li> <li>4" Omni C<sup>2</sup> \$4,260.00</li> <li>6" Omni C<sup>2</sup> \$7,150.00</li> <li>AMR Flexnet remote read adaptor - at current cost</li> </ul>
Hydrant Meter Rentals (includes application, administration fee, demonstration to user, water consumption, plus any repairs) <b>NOTE:</b> Rentals are site specific by approval only. Hydrant Meter relocation will be subject to 15% Administration Fee of the Deposit	Deposit of \$2,500 for each water meter Administration fee of 15% of the deposit plus water consumption charged at the current approved rates for water and wastewater per m <sup>3</sup>
Temporary Dewatering Discharge Fees Sanitary Sewer System	Current applicable City retail rate less Region of York current rate plus 15% Administration Fee
Dewatering Discharge Application Process Fees	\$500.00 plus 15% Administration Fee
General Administration Fee where applicable	15%