

2010 WATER & WASTEWATER OPERATING BUDGETS**Recommendation**

The City Manager, the Commissioner of Finance/City Treasurer, the Commissioner of Engineering and Public Works, the Director of Public Works and the Director of Financial Services recommends:

- 1) That the following report be received;
- 2) That the consumption rates for Water and Wastewater in Schedule "A" of By-Law 12-74 and 167-73 be amended to reflect the Regional rate increase, City operating and capital requirements, Attachment 1; and
 - (a) The City's water rate be increased from 98.0¢ to 106.29¢ per cubic meter effective in June 2010 the day after approval of the Water By-law is adopted; and
 - (b) The City wastewater rate be increased from 102.2¢ to 112.79¢ per cubic meter effective in June 2010 the day after the Wastewater By-law is adopted; and
- 3) That the additional Resource Requests, Attachment 3 be approved; and
- 4) That the recommendation from the Budget Committee be forwarded to a Special Council meeting on May 11, 2010 at 7:00 pm for public input; and
- 5) That the appropriate notification be provided in accordance with the notice By-Law 394-2002 and Ont. Reg. 244/02.

Economic Impact

This year 65% of the combined increase in rates is due to Region of York increases for the purchase of potable water and sanitary sewer services. The combined rate increase is 9.43% and the annual residential impact on an average household consumption of 300 cubic meters of water per year is an additional \$57.

Through operations water will generate \$3.1 million to the water reserve and wastewater will generate \$3.2 million to the wastewater reserve thereby providing the necessary funds to maintain a financially sustainable water and wastewater systems for the future. The consumption rates for water and wastewater are supported by the rate study conducted by Watson and Associates in 2009. The 2009 rate study will be the basis for the Water Financial Plan, which is the prescribed reporting requirement for a water system financial plan, as defined by Ontario Regulation 453/07.

Communications Plan

The approved Water & Wastewater rates will be advertised per City policy in the local newspapers and the City's web site. Staff are also developing with the Corporate Communications department a list of questions and answers to respond to the public and media. The City of Vaughan 2010 Water/Wastewater Budget and proposed 2010 rates were prepared in alignment with mandated provincial legislation for a financial plan for water systems, and guidelines for financially sustainable drinking water and wastewater systems as well as to ensure the highest quality of water in the City of Vaughan.

Purpose

To adopt the water and wastewater operating budgets and the corresponding consumption rates.

The annual water rate increase is 8.45% and wastewater rate increase is 10.36% incorporating Region of York increases, City operating, maintenance and infrastructure increases. The combined rate increase is 9.43% of which 6.1% (65%) is attributable to Region of York rate increases. The consumption rates are supported by the current rate study and continue the rate phase-in to full cost recovery. However the consumption rates are still very competitive as demonstrated on Attachment No. 2.

Background Analysis and Options

SUMMARY - 2010 WATER AND WASTEWATER PROPOSED CONSUMPTION RATES

The major source of revenue for water and wastewater operations is consumption rates, totalling \$75.0 million for 2010. The consumption rate revenues net of operating costs and Region of York purchases are transferred to the respective water and wastewater reserves. These funds provide for the delivery of clean potable water and wastewater services that includes on going infrastructure maintenance, administration, financing, overhead costs and contribution to reserve funds for the future rehabilitation of the City's underground infrastructure.

The proposed 2010 water and wastewater budgets are attached including the unaudited 2009 actuals. The water and wastewater operating and capital actual expenditure activity form part of the City's consolidated Financial Statements.

The following attachments are included: 2010 water and wastewater budgets including the unaudited 2009 Actuals Attachment No. 1, the Municipal Rate Comparison Attachment No. 2, the Resource Request - Water Attachment No. 3, Water, Wastewater & Drainage 2010 Business Plan, Attachment No. 4.

Annual Residential Impact

The residential customer with a consumption of 300 cubic meters of water per annum will see an increase of \$57 (\$37 is the Region of York portion) or 9.43%. The combined increase for water and wastewater represents a \$4.75 per month increase.

The 2010 budgets include an annual rate increase of 8.45% for water and a 10.36% increase for wastewater for a combined increase of 9.43%.

The rate increase impact is the result of:

- The Regional increase of 10% for the cost of potable water and the increase in wastewater services at 10.0%. This increase is based on Regional water and wastewater reserve adequacy study.
- The increase in the contribution to the wastewater reserve.
- The reduction in the contribution to the water reserve.
- Offsetting the impact of inflationary pressures.
- The increases in administration, financing and other expenditures.
- The reduction in maintenance costs.

2010 COMBINED RATE INCREASE

Potable Water & Wastewater Purchased Services	6.1%	York Region
Unmetered Water	1.2%	
Maintenance	-.2%	
Administration, Financing & Overheads	1.2%	
Joint Services	.1%	
Infrastructure Contribution	1.0%	
2010 Increase	9.4%	

Rate Components - Increase

The largest cost component of the consumption rate is the purchase of potable water and wastewater services from the Region as shown below. Water purchases and wastewater purchased services in particular have gone up over the past number of years by 10%. Both increases are primarily due to the need to build reserves for future Regional infrastructure requirements.

The City, like the Region, needs to ensure that sufficient reserves will be available for future infrastructure replacement. A significant component of the proposed consumption rates is "Contribution to Reserves". These are the funds that are transferred to the reserves each year for the future water & wastewater infrastructure replacement. The consumption rates are now supported by the study and are continuing to move in the direction of full cost recovery.

The 2010 water and wastewater rate components and cost impacts are as follows:

Rate Components	Water	Wastewater	Combined
Regional Purchased Services	63.4 ¢	71.8 ¢	135.2 ¢
Unmetered Water	9.3	0	9.3
Maintenance	11.6	13.6	25.2
Other	11.5	6.3	17.8
Contribution to Reserves	10.5	21.1	31.6
Total	106.3 ¢	112.8 ¢	219.1 ¢

Cost increase impact

	Water	Wastewater	Combined
Region	70%	62%	65%
City	30%	38%	35%

The Safe Drinking Water Act (SDWA) – Licencing Requirements

The Safe Drinking Water Act (SDWA) is comprehensive in its legislative requirements and was enacted to place all legislation and regulations relating to the treatment and distribution of drinking water into one 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.

Drinking Water Quality Management Standard (DWQMS)

Fourteen of the recommendations in the final report of the Walkerton Inquiry relate to the development of the new approvals framework for municipal residential drinking water systems. The new program, the Municipal Drinking Water Licence Program, is based on Recommendation No. 71 of the Walkerton Inquiry Part Two Report, which states:

The Ministry of the Environment should require the owners of municipal water systems to obtain an owner's licence for the operation of their waterworks. In order to obtain a licence, an owner should have⁷:

1. a certificate of approval for the facility;
2. a permit to take water;
3. approved operational plans;
4. an approved financial plan; and
5. an accredited operating authority

The first two elements, the City of Vaughan does not require a certificate of approval for the distribution system, and a permit to take water has not been issued since the City does not take water, but purchases it from York Region. The City of Vaughan received its Drinking Water Works Permits and Municipal Drinking Water Licences on July 27, 2009, which are a modified version of the existing Certificate of Approval framework.

Elements three and five (approved operational plan, and an accredited operating authority) are new to the water sector and to the Ministry of the Environment (MOE). These two elements are directly related to the Walkerton Inquiry Report's recommendation that Owners and Operating Authorities move towards the concepts of the quality management approach into their operation and management of the drinking water system.

The DWQMS has 21 elements which relate to quality management and the risk assessment/risk management of critical control points. The Operating Authority, in consultation with the Owner, prepared an Operational plan, which outlines how the City is meeting the requirements of the standard. As required by Ontario Regulation 188/07, the City of Vaughan has successfully completed and submitted the Operational Plan which was mandated under schedule 1, for January 1, 2009. As previously discussed, the Operational Plan documents the processes and procedures that the Owner and Operating Authority have in place to meet the requirements of the DWQMS.

On June 11 & 12, 2009 an on-site verification audit was conducted by Canadian General Standards Board to determine whether the drinking water Quality Management System (QMS) conforms to the requirements of the Ontario Ministry of the Environment's Drinking Water Quality Management Standard (DWQMS). The results of the audit found no non-conformances, and outlined seven opportunities for improvement. A Full Scope – Entire accreditation certificate was formally issued to the Corporation of the City of Vaughan on July 7, 2009.

Financial Plans

Lastly, element four, approved financial plans must apply to a period of at least six years and include details of the drinking water system's proposed or projected;

- Financial Position
- Financial Operations
- Gross Cash Receipts & Gross Cash Payments

The financial plans must be approved by Council and forwarded to the Ministry of Environment and Ministry of Municipal Affairs and Housing no later than July 1, 2010. This report will be presented to Council for approval in the next two months.

Conservation

Water conservation is becoming a more prevalent topic, and plays an important role in the future growth and development of York Region. The Region of York's Water for Tomorrow program continues to provide programs and initiatives to reduce the consumption and loss of drinking water. The latest initiatives include:

- a water efficient toilet rebate program where single family home owners in York Region purchasing an eligible water efficient toilet on or after May 1st can receive a \$75 rebate for a maximum five toilets per location;
- rain barrels for sale to York Region residents at a cost that is well below market rates; and,
- water efficient landscape visits and industrial/commercial water audits to encourage water consumers to conserve water use and assists in reducing energy consumption and their carbon footprint.

The Water for Tomorrow program undertaken by the Region of York continues to provide programs and initiatives to reduce the consumption and loss of drinking water. The latest initiatives is a water efficient toilet rebate program where single family home owners in York Region purchasing an eligible water efficient toilet on or after May 1st can receive a \$75 rebate for a maximum five toilets per location. In addition, the program continues to offer water efficient

landscape visits and industrial/commercial water audits to encourage water consumers to conserve water use and assists in reducing energy consumption and their carbon footprint.

Public Works continues to refine its flushing programs to reduce water flushed from the system to ensure water quality. The banding of hydrants has reduced theft and encourages water haulers to source water from one of the City's four water filling stations. The anode protection program initiated in 2005 to reduce corrosion in iron water mains continues to perform very well yielding a 50% decrease in the number of water main breaks in the water distribution system.

2010 Water Budget - Revenue & Expenditure Highlights

Additional Resource Requests – Water

For 2010, two additional resource requests have been submitted, Attachment #3 and the funds are included in the Water budget. These resource requests are for two additional complements to assist in both Finance and Public Works to meet growing demands due to regulatory requirements and to ensure continuous network analysis of the City's water distribution systems.

2010 Water Budget Factors

The budgeted 2010 water billing revenue includes a 2.5% (2.0% 2009) residential, 1.55% (1.25% 2009) commercial growth factor and an 8.45% water rate increase. The consumption volume is conservatively estimated based on growth only and does not reflect any weather predictions.

Increases in expenditures include the Regional cost of potable water at 10%, inflationary increases related to wages, purchased goods and services, increases in operational service areas and the rate study as it pertains to the appropriate funding contribution level for the reserve.

2010 Proposed Water Budget Highlights

Revenues:

The recommended water rate of 106.29 cents per cubic meter is based on the proposed operating and capital budgets and future infrastructure replacements. The water rate has been smoothed over a 10 year period thereby lessening the year over year fluctuations that would otherwise occur due to the infrastructure replacement timelines. Based on the required estimated capital asset replacement value over the 10 year period the full recovery water rate is 158 cents.

The budgeted water billings in 2010 include an 8.45% rate increase and an increase in residential and commercial growth. The revenues are expected to be \$36.6 million with water purchases from the Region at \$25.3 million, including unmetered water, resulting in a gross margin of \$11.3 million. Other revenue for bulk water sales remains constant year over year at \$0.2 million. Installation activity is expected to be similar to last year's budgeted level at \$1.1 million.

Unmetered Water Consumption:

Unmetered water usage takes place through: fire suppression and fire training, irrigating sports fields, main flushing and maintenance, street sweeping, water main breaks and service leaks, testing and flushing water mains in new developments due to Provincial water regulations, water used by builders in the construction of new homes, etc.

Unmetered water is recovered through the City's development agreements and is also billed and recovered internally for City purposes; such as recreation's swimming pools, and consumption in the many building's and facilities throughout the City.

The 2010 unmetered water is budgeted at 13% up 2% from last year. The unmetered water loss for 2009 is 16.8% substantially higher than we have experienced in previous years. In part this is the result of continued need to flush water mains in new subdivisions. Flushing maintains the City's ability to provide potable water thereby meeting Ministry of Environment requirements. Some of the

cost is recovered from fees in the subdivision agreements which have recently been increased. The potential loss due to the York-Peel feeder water main on Rutherford Road has not yet been determined. The leak from this Regional main was discovered in September of 2009. York Region staff have been requested by the City to provide an estimate in terms of the volume of water that would have been lost through this leak, as this water would have passed through the boundary meter and charged to the City. Public Works staff are following up with the Region on this matter, but as of this point in time, no numbers are available.

The actual unmetered water over the past number of years ranges from 9.3% to 14.0% reflecting the growth of the City. The National Drinking Water Clearinghouse in the USA has indicated that water unaccounted for in the 10 - 12% range is considered normal, while the National Research Council of Canada reported that the range is anywhere from 20 - 30%.

Unmetered Water Resolution

At the June 5th 2008 meeting of the Finance and Administration Regional Committee a recommendation was put forward that staff negotiate a resolution to the water billing issue between the City of Vaughan and the Region. In December 2009 this matter was resolved.

Expenditures:

2010 budgeted expenditures total \$9.4 million covering maintenance, administration, financing, overhead and other costs up by 3.9% over last year's budget. The largest component is the overhead allocation revised under the Watson cost driver model supporting the revenue fund transfer. This increase is offset by a slight reduction in maintenance activity budgeted at \$5.3 million down by 3.0% due to lower meter installations. Administration is budgeted at \$1.3 million up by 12.2% due to two new complements over last year's budget. The balance of the costs are similar to last year's budgeted levels.

2009 Actual Highlights

Actual 2009 total water billings of \$33.3 million are under budget significantly by \$2.2 million. Budgeted consumption levels reflected average weather patterns over a two year period which incorporated a wet and dry season to predict more reliable consumption levels. Actual billing consumption was not realized as weather significantly influenced consumption. Water demand was much lower than anticipated despite how rainfall in 2009 during the summer months was 29.3% lower than 2008 for same period.

Residential billings at \$20.4 million were down by 4.3% and Commercial at \$12.6 million down by 9.6% compared to budget. Average household consumption has declined over the past three years which may be attributed to conservation efforts combined with weather patterns. Bulk sales and installation service fees came in on budget. The largest component of other revenue is due to the York Region water loss settlement.

Actual maintenance expenditures came in at \$4.5 million, under budget by \$.9 million. Maintenance is generally under budget each year due to additional funding for possible emergency work. However, 2009 actual maintenance costs have increased over 2008 by 18.4% thus reducing the favourable variance normally experienced. Administration came in at \$0.9 million and is slightly under budget due to gapping as staff approved last year were hired later than expected. The remaining expenditures came in close to budget.

Water Lifecycle Contribution

In 2009 through water operations, the net of all revenues and costs resulted in \$3.9 million (\$4.6M 2008) being transferred to the water reserve. The transfer is down by \$.7 million due to lower than expected water consumption and increased maintenance costs. The 2010 budgeted transfer from water operations to the water reserve is \$3.1 million. These funds will provide for the future requirements of the water infrastructure. The forecasted Capital drawdown of the reserve in 2010 for water related infrastructure needs is expected to be \$2.6 million.

Committed capital costs represent approved capital projects not yet begun or completed and total \$6.7 million, these projects will be completed over the next couple of years.

The budgeted reserve balance at the end of 2010 is projected to be \$17.9 million (2009 actual \$17.3m) after committed capital projects a net increase of \$.6 million. These funds will provide for the future requirements of the water infrastructure to ensure the City's drinking water systems are financially sustainable as required under the new Municipal Drinking Water Licence Program.

2010 Wastewater Budget - Revenue & Expenditure Highlights

Back-water Valve Installation Subsidy Program Update

On May 5, 2009, Council approved the Back-water Valve Installation Subsidy program. The necessary by-law has been enacted, and the program has been advertised to the public. The subsidy is based on having an annual maximum funding cap of \$112,500, to be funded from the Wastewater Reserve. Based on a maximum subsidy of \$750 per property, the City can approve 150 applications per year, if all received the maximum subsidy. In 2009, there were two applicants. Funding for the continuation of this program has been included in the base 2010 Wastewater Budget.

2010 Wastewater Budget Factors

The budgeted 2010 wastewater billing revenue includes a 2.5 % (2.0% 2009) residential, 1.55% (1.25% 2009) commercial growth factor and a 10.4% wastewater rate increase. The volume of wastewater is not metered. The consumption volume is based on water sold to the consumer.

Cost increases include the rate increase in the Regional cost of wastewater services at 10%, increases to City's operational, administration, other costs and the infrastructure contribution to the reserve that is required to fund future capital needs now based on the rate study.

2010 Proposed Wastewater Budget Highlights

Revenues:

The recommended wastewater rate of 112.8 cents is based on the proposed operating and capital budgets and represents a move in the direction of full cost recovery as supported by the rate study. The wastewater rate has been smoothed out over a 10 year period thereby lessening the year over year fluctuations that would otherwise occur due to the varying water infrastructure replacement timelines. Based on the required estimated capital asset replacement value over the 10 year period the full cost recovery wastewater rate is 153 cents and sewer services 55 cents.

Staff will be looking at various rate options outlined in the Watson study to more effectively fund storm sewer services.

The budgeted wastewater billings in 2010 include a 10.4% rate increase and an increase in residential commercial growth. The revenues are expected to reach \$38.3 million with the expected wastewater services from the Region at \$28.1 million leaving a gross margin of \$10.2 million. The above cost of wastewater disposal service from the Region includes a 10.0% increase. The Region's treatment cost for wastewater is based on potable water purchased by the City. Other revenues budgeted at \$0.3 million are similar to last year's level. The 2010 local improvement revenue is budgeted at \$213,200 and is offset by the cost of debentures of \$213,200. Installation and service fees are budgeted at \$0.3 million up by \$0.1 million from last year's budget.

Expenditures:

2010 Budgeted expenditures total \$7.5 million covering maintenance, administration, storm sewer financing, joint services, overhead and other costs are up slightly by 2.0% over last year's budget. The largest increase year over year is the overhead allocation, revised under the Watson cost driver model to support the revenue fund transfer. This increase is offset by a slight reduction in

storm sewer maintenance activity budgeted at \$2.1 million down by 6.7%. Administration is budgeted at \$0.4 million up by 6.0% due to slight increases in training & development and professional fees.

2009 Actual Highlights

Actual 2009 total wastewater billings of \$33.3 million are under budget significantly by \$2.4 million. Wastewater revenue is based on water consumption therefore is under budget. This was unexpected given the rainfall activity in 2009 compared to 2008 (29.3% lower) during the summer months. Possible conservation measures may be a factor in lower than anticipated consumption levels. Residential actual billing totalled \$20.3 million, down by 5.7% and Commercial and Industrial actual billings totalled \$13.0 million down by 8.2% when compared to budget. Other revenues at \$1.3 million are higher than expected due to installation revenue coming in at \$0.2 million higher due to increased activity and a large component represents the York Region water dispute settlement.

2009 Actual expenditures total \$6.3 million covering maintenance, administration, storm sewer, financing, overhead and other costs, down by 14.7% when compared to budget. Actual maintenance expenditures came in at \$2.9 million under budget by \$0.2 million. Storm sewer maintenance came in at \$1.4 million under budget by 35.6% as a result of less than expected activity. The balance of expenditures came in on budget.

Wastewater Lifecycle Contribution

In 2009 through wastewater operations, the net of all revenues and costs resulted in \$3.6 million (\$3.1m 2008) being transferred to the wastewater reserve fund.

The 2010 budgeted transfer of \$3.2 million from wastewater/storm operations to the reserve is higher at \$0.4 million over last year's budget. The capital drawdown of the reserve in 2010 for wastewater related infrastructure needs is expected to be low this year at \$0.3 million.

Committed capital costs represent projects not yet begun or completed and totals \$1.5 million, these projects will be completed over the next couple of years.

The budgeted reserve balance at the end of 2010 is projected to be \$19.5 million after committed capital projects, a net increase of \$3.0 million. These funds will provide for the future requirements of the wastewater infrastructure.

Relationship to Vaughan Vision 2020

Establishes the budget and resources required to maintain service levels and undertake Council priorities in this area.

Regional Implications

No Implications

Conclusion

Based on the current rate study review the City's water, wastewater rates are moving towards full cost recovery. This approach will maintain a financially sustainable reserve for the future. Based on the proposed rate increase for water and a rate increase for wastewater the impact to the ratepayer that consumes 300 cubic meters per year will be approximately \$57.00 or \$4.75 per month.

It is therefore recommended that the City's water rate be increased to 106.29 cents per cubic meter and that the wastewater rate be increased to 112.79 cents per cubic meter both effective June 2010.

Attachments

- Attachment No. 1: The 2010 Water and Wastewater Budgets including 2009 unaudited Water and Wastewater Actuals
Attachment No. 2: 2010 Water and Wastewater Municipal Rate Comparison
Attachment No. 3: Resource Requests - Water
Attachment No. 4: Water, Wastewater & Drainage 2010 Business Plan

Report prepared by:

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Respectfully submitted,

Clayton D. Harris, CA
City Manager

Barbara Cribbett, CMA
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Director of Public Works

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Director of Financial Services

The Corporation of the City of Vaughan
WATER RESERVE FUND
Statement Of Operations
For The Year Ending December 31, 2009

Description	2010 Annual Budget	% of Sales	2009 Annual Budget	% of Sales	2009 Year End Actual	% of Sales
REVENUE						
Water Revenue - Residential	\$22,424,000		\$21,365,280		\$20,446,701	
- Commercial	13,922,000		13,975,955		12,632,314	
- Other	212,000		200,000		213,490	
Total	\$36,558,000		\$35,541,235		\$33,292,505	
PURCHASES						
Metered Water Purchases	\$21,981,000		\$20,804,820		\$19,694,356	
Unmetered Water	3,285,000	13.0%	2,571,135	11.0%	3,948,328	16.7%
TOTAL WATER PURCHASES	\$25,266,000		\$23,375,955		\$23,642,685	
GROSS MARGIN	\$11,292,000	30.9%	\$12,165,280	34.2%	\$9,649,820	29.0%
OTHER REVENUES						
Installation and Service Fees	\$1,175,000		\$1,150,000		\$1,221,756	
Other	0		0		824,034	
TOTAL	\$1,175,000	3.2%	\$1,150,000	3.2%	\$2,045,789	6.1%
EXPENDITURES						
Maintenance & Installation Cost	\$5,281,815		\$5,444,525		4,528,921	
General Administration	1,329,930		1,185,635		886,155	
Joint Service Costs	907,130		891,095		891,094	
Debt Service Payments	202,790		202,790		202,852	
Overhead	1,475,245		1,152,520		1,152,520	
Insurance Allocation	157,975		131,100		131,100	
TOTAL	\$9,354,885	25.6%	\$9,007,665	25.3%	\$7,792,642	23.4%
LIFECYCLE CONTRIBUTION - RESERVE	\$3,112,115	8.5%	\$4,307,615	12.1%	\$3,902,967	11.7%

Water Rate change effective June 1, 2010

Statement of Continuity - Water Reserve

Description	2010 Annual Budget	2009 Annual Budget	2009 Year End Actual
Reserve Balance - Beginning - Actual	\$17,276,765	\$17,323,929	\$20,525,021
Lifecycle contribution from Water Operations	3,112,115	4,307,615	3,902,967
Capital Fund Transfer - Year End Actual	-	-	(484,969)
- Yearly Budget	(2,577,875)	(3,405,150)	-
- Committed	-	-	(6,713,162)
- Prior Years Actual	-	-	-
Revenue Fund Transfer - Year End Actual	-	-	-
- Yearly Budget	-	-	-
Interest	58,000	88,000	46,908
Reserve Balance - Ending - Committed / Actual	\$17,869,005	\$18,314,394	\$17,276,765

The Corporation of the City of Vaughan

WASTEWATER RESERVE FUND

Statement of Operations

For The Year Ending December 31, 2009

Description	2010 Annual Budget	% of Sales	2009 Annual Budget	% of Sales	2009 Year End Actual	% of Sales
REVENUE						
Wastewater Billings - Residential	\$23,287,000		\$21,555,170		\$20,326,976	
- Commercial	14,982,000		14,165,205		13,007,718	
Total	\$38,269,000		\$35,720,375		\$33,334,694	
PURCHASES						
Regional Wastewater Treatment Charges	\$28,051,500	73.3%	\$25,953,230	72.7%	\$24,745,712	74.2%
GROSS MARGIN	\$10,217,500	26.7%	\$9,767,145	27.3%	\$8,588,982	25.8%
OTHER REVENUES						
Local Improvements	\$213,200		\$213,200		\$214,110	
Installation and Service Fees	325,000		200,000		349,427	
Other	0		0		774,558	
TOTAL	\$538,200	1.4%	\$413,200	1.2%	\$1,338,095	4.0%
EXPENDITURES						
Maintenance & Installation Cost	\$3,221,325		\$3,163,170		\$2,920,653	
General Administration	385,500		363,525		326,798	
Storm Sewer Maintenance	2,096,050		2,247,230		1,446,387	
Joint Service Costs	604,755		594,065		594,063	
Debt Service Payments	213,200		213,200		214,110	
Overhead	829,825		647,480		647,480	
Insurance Allocation	166,530		138,200		138,200	
TOTAL	\$7,517,185	19.6%	\$7,366,870	20.6%	\$6,287,691	18.9%
LIFECYCLE CONTRIBUTION - RESERVE	\$3,238,515	8.5%	\$2,813,475	7.9%	\$3,639,386	10.9%

Wastewater Rate change effective June 1, 2010

Statement of Continuity - Wastewater Reserve

Description	2010 Annual Budget	2009 Annual Budget	2009 Year End Actual
Reserve Balance - Beginning - Actual	\$16,513,936	\$13,470,067	\$14,406,584
Lifecycle contribution from Wastewater Operations	3,238,515	2,813,475	3,639,386
Capital Fund Transfer - Year End Actual	-	-	(16,065)
- Yearly Budget	(280,675)	(440,325)	-
- Committed	-	-	(1,548,992)
Revenue Fund Transfer - Yearly Budget	-	-	-
Interest	55,000	76,000	33,023
Reserve Balance - Ending - Committed / Actual	\$19,526,776	\$15,919,217	\$16,513,936

**WATER AND WASTEWATER RATE COMPARISON
BASED ON AVERAGE CONSUMPTION - 300 CUBIC METRES**

				YOY CHANGE	
		2010	2009	AMOUNT	%
1)	REGION OF PEEL	\$ 390	\$ 372	\$ 17	4.7%
2)	VAUGHAN	\$ 657	\$ 601	\$ 57	9.4%
3)	MARKHAM	\$ 664	\$ 601	\$ 63	10.4%
4)	RICHMOND HILL	\$ 668	\$ 607	\$ 61	10.0%
5)	DURHAM REGION	\$ 765	\$ 713	\$ 52	7.3%
6)	BARRIE	\$ 786	\$ 682	\$ 104	15.2%
7)	NEWMARKET	\$ 843	\$ 779	\$ 63	8.1%

ADDITIONAL RESOURCE REQUEST

Request Summary

Title **Water Distribution Network Engineer**

Request Components: Staffing (check box) # of FTE **1.00** # of complements **1**
Other (check box)

2010 Operating Budget Impact **\$ 115,703**

2010 IMPACT BREAKDOWN:

Continuous Funding **\$ 56,313**
2010 One-Time Expenses **\$ 59,390**
Associated 2010 Capital Impact **\$ -**

FULL FUTURE IMPACT BREAKDOWN:

	2011	2012	2013
Expenses	\$ 111,625	\$ 111,625	\$ 111,625
Revenue/Offset	\$ -	\$ -	\$ -
Net	\$ 111,625	\$ 111,625	\$ 111,625

OFFSETS: FTE dollars **\$ -**

	2011	2012	2013
Capital	\$ -	\$ -	\$ -

Description of Request

The Public Works Department Water section requests 1 FTE to continuously analyse the City's water distribution systems at a cost of \$111,625.00 annually. The network analysis will include adequate water quality and quantity, study of water flow and pressure, extended period simulation analysis, backflow prevention, leak detection, integration and compatibility analysis with the Region of York water system and maintenance of mapping for compliance with the City's Drinking Water Licence.

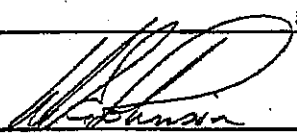
Business Unit #:

Business Unit Name:

2340001.701

Salary

COMMISSIONER APPROVAL:



ADDITIONAL RESOURCE REQUEST

2) Relationship to Vaughan Vision 2020 - Goals / Objectives / Initiatives

A) Identify the specific initiative this resource request relates to, by completing the following:

	Initiative	Ref #	Date	Priority	* Request/Initiative Relationship	Vaughan Vision 2020	Goal
1	Water Distribution Network Engineer	8		High		Maintain Assets and Infrastructure	
2							
3							

* Select either - General Correlation or Mandatory for Success from drop box

B) Describe and clearly demonstrate how the request links with the Vaughan Vision 2020 objective or initiative:

Analysys of the municipal water system is required to meet the recommendations and best practices of the Amercian Water Works Association (AWWA) which is the standard used by the Ministry of the Environment. This ties into Vaughan Vision 2020 A2 - enhance and ensure community safety, health and wellness.

3) Business Plan Link & Performance Indicators

Please relate request to Department Business Plan

Compliance with Drinking Water Permit and Licence

4) Benefits, Efficiencies & Effectiveness

Please detail the benefit of the requests and if the request will provide cost savings, increase efficiency, etc.

The benefits from continuous analysis of the City water distribution system are improved flow characteristics for consumption and fire protection, consistant water quality throughout the system, directional flushing, potential reduction in water loss and better intigration with Regional infrastructure and expansion from development. This is similar to positions in other municipalities.

5) Timeline

Please detail when resources will be required, key milestones, etc.

This compliment will start mid year. At that time, computers, furniture, blackberry and workspace will be required.

ADDITIONAL RESOURCE REQUEST

6) Implications/Consequences (if request not approved)

A) Briefly describe who will be affected by the request (staff, residents, community, etc.)

Vaughan Fire, residents, businesses, operating and compliance staff and developers will all benefit.

B) Briefly illustrate the impacts/consequences if the request is not approved

AWWA best practices recommends regular analysis of water distribution systems. This ensures minimum pressures and flows are maintained when additions are made to the system.

C) Please check off how the request relates to the following:

Health & Safety

- None
- Minor issue & require monitoring
- Severe issue, immediate attention required

Comments:

Legislative Requirement (excludes City By-Laws)

- None
- Little consequence of non compliance
- Significant Repercussion

None for this position, but there are numerous regulations and acts that deal with water quality and operation of the drinking water system.

Please specify:

Specific Legislation (i.e.... Act/Regulation/etc.)

Comments

What are the compliance requirements?

Current status of compliance:

Probability of Litigation

- None
- Unlikely or likely with minor outcomes/consequences
- Uncertain - potential for significant outcomes/consequences
- Definitely significant outcomes/consequences

Comments

Core City Service Disruption

- None
- Service provided with minor internal issues -slight inconvenience
- Intermittent service level impact - some public/client complaints/frustration
- Service failure - constant public/client complaints/aggression

BRIEFLY DESCRIBE IMPACT:

ADDITIONAL RESOURCE REQUEST

7) Economic Impact

2010 Operating Cost Details		Object Code/Account	One-time (OT) or Continuous (C)	\$Expense (\$Revenue)
1	1 FTE (1/2 year for 2010)	7010	C	44,250.00
2	ANNUAL BENEFITS	7017	C	11,062.50
3	COMPUTER EQUIPMENT (one-time)	7211.01	OT	10,390.00
4	OFFICE EQUIPMENT AND FURNITURE (one-time)	7210	OT	4,000.00
5	OTHER EXPENSES (specify) 1) Blackberry	7122	C	1,000.00
6	2) Vehicle		OT	45,000.00
7				-
8				-
9				-
Subtotal				\$ 115,703

Revenues / Potential Saving Costs/Offsets				
1				-
2				-
3				-
Subtotal				\$ -

Total 2010 Operating Impact **Grand Total:** \$ 115,703

Other Considerations (Major Impacts):

		(\$ dollars)			
		One-time (OT) or Continuous (C)	2011	2012	2013
Future Incremental operating expense Impact					
1	1 FTE	C	88,500.00	88,500.00	88,500.00
2	Benefits	C	22,125.00	22,125.00	22,125.00
3			1,000.00	1,000.00	1,000.00
		TOTAL	111,625.00	111,625.00	111,625.00
Future Incremental Revenue/Offset of operating expenses					
1		C	-	-	-
2			-	-	-
		TOTAL	-	-	-
Net Impact		NET	111,625.00	111,625.00	111,625.00

For Information Purposes:

		(\$ dollars)				
		One-time (OT) or Continuous (C)	Current Year 2010	2011	2012	2013
Associated Capital Costs						
1			-	-	-	-
2			-	-	-	-
3			-	-	-	-
		TOTAL	-	-	-	-

ADDITIONAL RESOURCE REQUEST

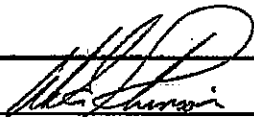
8) Complement Details

COMPLEMENT DETAILS

POSITION TITLE	2010 BUDGET IMPACT (\$)		
	Position #1	Position #2	Position #3
Water Distribution Network Engineer			
# OF POSITIONS BEING REQUESTED	1		
FTEs	1		
POSITION CLASSIFICATION- FT, PT, UNION, MGMT, etc.	FT		
CONTRACT (Y/N)	N		
IF CONTRACT, PLEASE SPECIFY IF PERMANENT OR FOR A SPECIFIC TERM			
GRADE / LEVEL	B		
STEP	3		
ESTIMATED START DATE	3 Quarter		
ANNUAL 2010 BUDGETED SALARY	\$ 44,250.00	\$ -	\$ -
ANNUAL OVERTIME	\$ -	\$ -	\$ -
ANNUAL BENEFITS	\$ 11,062.50	\$ -	\$ -
COMPUTER EQUIPMENT (one-time) Computer, software, phone	\$ 10,390.00	\$ -	\$ -
OFFICE EQUIPMENT AND FURNITURE (one-time)	\$ 4,000.00	\$ -	\$ -
OTHER EXPENSES (specify) 1) Blackberry One-time (OT) or Continuous (C) C	\$ 1,000.00	\$ -	\$ -
2) Vehicle One-time (OT) or Continuous (C) OT	\$ 45,000.00	\$ -	\$ -
3) One-time (OT) or Continuous (C)	\$ -	\$ -	\$ -
SUB - TOTAL EXPENSES	\$ 115,702.50	\$ -	\$ -
OFFSETS (only complete if applicable)			
REVENUE GENERATED		\$ -	\$ -
STAFF REDUCTIONS -TYPE P/T select type		\$ -	\$ -
STAFF REDUCTIONS - # OF FTEs			
ACCOUNT REDUCTIONS (specify - e.g. Prof. Fees)		\$ -	\$ -
OTHER		\$ -	\$ -
SUB - TOTAL OFFSETS		\$ -	\$ -
TOTAL NET BUDGETED IMPACT FOR 2010	\$ 115,702.50	\$ -	\$ -

9) Other Comments

This FTE is required to manage the water distribution system in accordance with AWWA best practices.



Commissioner Sign Off

03/18/10
Date (mm/dd/yy)



CITY OF VAUGHAN
2010 OPERATING BUDGET

ADDITIONAL RESOURCE REQUEST

Request Summary

Title Water & Wastewater Analyst

Request Components: Staffing (check box) # of FTE 1.00 # of complements 1
Other (check box)

2010 Operating Budget Impact \$ 42,930.00

2010 IMPACT BREAKDOWN:

Continuous Funding \$ 35,930.00

2010 One-Time Expenses \$ 7,000.00

Associated 2010 Capital Impact \$ -

OFFSETS:

FTE	dollars
	\$ -

FULL FUTURE IMPACT BREAKDOWN:

	2011	2012	2013
Expenses	\$ 71,860	\$ 71,860	\$ 71,860
Revenue/Offset	\$ -	\$ -	\$ -
Net	\$ 71,860	\$ 71,860	\$ 71,860

	2011	2012	2013
Capital	\$ -	\$ -	\$ -

1) Description of Request

The Finance Department requests 1 FTE to administer the water meter inventory to account for tangible capital assets on a quarterly basis due to PSAB 3150. This will encompass matching meter purchases to actual customer accounts from service orders, work orders, meter changeouts and maintaining meter inventory. This position will be supporting Public Works activities and Billing Agent to minimize missed revenue opportunities through extensive customer account reviews and data compilation. The analyst will liaise with Public Works and Billing Agent gathering information to support customer water account issues, disputes and outstanding billing issues ensuring timely followup and resolution.

Other key areas will be determining internal water uses such as buildings, parks, soccer fields and subdivision agreements etc. which will support in the bi-monthly unmetered water analyses. Perform monthly expenditure and water loss variance analysis, consumption trending, top water users and investigation of other statistical data to support water activities will further support rate setting, financial plans and rate study. Expanding the role in the area of infrastructure reporting will assist in the lifecycle contribution analysis.

This role will facilitate in the change management process required to support asset management and assisting Senior Business Analyst (SBA) to expedite the approval of financial plans due to the new water licence renewal program under the Safe Drinking Water Act. Additionally, this role will support the gathering of comparative rate structures for future pricing strategies.

Business Unit #:

Business Unit Name:

2340001.7010

WATER ADMINISTRATION

COMMISSIONER APPROVAL:

2) Relationship to Vaughan Vision 2020 - Goals / Objectives / Initiatives

A) Identify the specific initiative this resource request relates to, by completing the following:

	Initiative	Ref #	Date	Priority	* Request/Initiative Relationship	Vaughan Vision 2020	Goal
1	Water & Wastewater Analyst			High		Maintain Assets and Infrastructure	
2							
3							

* Select either - General Correlation or Mandatory for Success from drop box

B) Describe and clearly demonstrate how the request links with the Vaughan Vision 2020 objective or initiative:

Maintain assets and infrastructure

3) Business Plan Link & Performance Indicators

Please relate request to Department Business Plan

4) Benefits - Efficiencies & Effectiveness

Please detail the benefit of the requests and if the request will provide cost savings, increase efficiency, etc.

This position will enable all aspects of the water & wastewater finance activities to be performed in a timely manner with new MOE reporting requirements and PSAB which resulted in workload increases. This position will promote implementation of best practices in the areas of bi-monthly financial statement reporting, identifying unmetered water losses and areas for change management regarding tangible capital assets for example.

5) Timeline

Please detail when resources will be required, key milestones, etc.

This complement will be hired between the 3rd and 4th quarter at which time a personal computer, workstation and telephone will be required.

6) Implications/Consequences (if request not approved)

A) Briefly describe who will be affected by the request (staff, residents, community, etc.)

B) Briefly illustrate the impacts/consequences if the request is not approved

MOE water licensing application process requires new reporting requirements be met in a timely manner. With these new time constraints the City must be approved as a licensed water distribution system to effectively deliver potable water to our residents and business community. Expanding the finance department will support this vital function by assuming other key activities.

C) Please check off how the request relates to the following:

Health & Safety

- None
- Minor issue & require monitoring
- Severe issue, immediate attention required

Comments:

[Empty comment box]

Legislative Requirement (excludes City By-Laws)

- None
- Little consequence of non compliance
- Significant Repercussion

Comments:

PSAB assists in recording meter assets; MOE to meet new water licensing program

Please specify:

Specific Legislation (i.e.... Act/Regulation/etc.)

What are the compliance requirements?

Comments:

O.REG. 453/07 - FINANCIAL PLANS

Current status of compliance:

In progress to meet July 1st licensing timeline

Probability of Litigation

- None
- Unlikely or likely with minor outcomes/consequences
- Uncertain - potential for significant outcomes/consequences
- Definitely significant outcomes/consequences

Comments:

[Empty comment box]

Core City Service Disruption

- None
- Service provided with minor internal issues -slight inconvenience
- Intermittent service level impact - some public/client complaints/frustration
- Service failure - constant public/client complaints/aggression

BRIEFLY DESCRIBE IMPACT:

Assist in investigation, analysis of customer issues

7) Economic Impact

2010 Operating Cost Details		Object Code/Account	One-time (OT) or Continuous (C)	\$Expense (\$Revenue)
1	1 FTE (1/2 year for 2010)	7010	C	27,630.00
2	ANNUAL OVERTIME		C	\$ 1,000.00
3	ANNUAL BENEFITS		C	\$ 7,300.00
4	COMPUTER EQUIPMENT (one-time)		OT	\$ 3,500.00
5	OFFICE EQUIPMENT AND FURNITURE (one-time)		OT	\$ 2,500.00
6	TELEPHONE EQUIPMENT		OT	\$ 1,000.00
7				-
8				-
9				-
Subtotal				\$ 42,930

Revenues / Potential Saving Costs/Offsets				
1				-
2				-
3				-
Subtotal				\$ -

Total 2010 Operating Impact: **Grand Total:** \$ 42,930

Other Considerations (Major Impacts):		(\$ dollars)		
	One-time (OT) or Continuous (C)	2011	2012	2013
Future Incremental operating expense impact				
1	1 FTE	71,860.00	71,860.00	71,860.00
2		-	-	-
3		-	-	-
TOTAL		71,860.00	71,860.00	71,860.00
Future Incremental Revenue/Offset of operating expenses				
1		-	-	-
2		-	-	-
TOTAL		71,860.00	71,860.00	71,860.00
Net Impact		NET		

For Information Purposes:		(\$ dollars)			
Associated Capital Costs	One-time (OT) or Continuous (C)	Current Year 2010	2011	2012	2013
1		-	-	-	-
2		-	-	-	-
3		-	-	-	-
TOTAL					

8) Complement Details

COMPLEMENT DETAILS				2010 BUDGET IMPACT (\$)		
				Position #1	Position #2	Position #3
POSITION TITLE				Water & Wastewater Analyst		
# OF POSITIONS BEING REQUESTED				1		
FTEs				1		
POSITION CLASSIFICATION- FT, PT, UNION, MGMT, etc.				FT		
CONTRACT (Y/N)				N		
IF CONTRACT, PLEASE SPECIFY IF PERMANENT OR FOR A SPECIFIC TERM						
GRADE / LEVEL				G		
STEP				Start		
ESTIMATED START DATE				3 Quarter		
ANNUAL 2010 BUDGETED SALARY				\$ 27,630.00	\$ -	\$ -
ANNUAL OVERTIME				\$ 1,000.00	\$ -	\$ -
ANNUAL BENEFITS				\$ 7,300.00	\$ -	\$ -
COMPUTER EQUIPMENT (one-time) <small>Computer, software, phone</small>				\$ 4,500.00	\$ -	\$ -
OFFICE EQUIPMENT AND FURNITURE (one-time)				\$ 2,500.00	\$ -	\$ -
OTHER EXPENSES (specify) 1) <small>Blackberry</small> <small>One-time (OT) or Continuous (C)</small>				\$ -	\$ -	\$ -
2) <small>Vehicle</small> <small>One-time (OT) or Continuous (C)</small>				\$ -	\$ -	\$ -
3) <small>One-time (OT) or Continuous (C)</small>				\$ -	\$ -	\$ -
SUB - TOTAL EXPENSES				\$ 42,930.00	\$ -	\$ -
OFFSETS (only complete if applicable)						
REVENUE GENERATED				\$ -	\$ -	\$ -
STAFF REDUCTIONS -TYPE <small>P/T select type</small>				\$ -	\$ -	\$ -
STAFF REDUCTIONS - # OF FTEs				\$ -	\$ -	\$ -
ACCOUNT REDUCTIONS (specify - e.g. Prof. Fees)				\$ -	\$ -	\$ -
OTHER				\$ -	\$ -	\$ -
SUB - TOTAL OFFSETS				\$ -	\$ -	\$ -
TOTAL NET BUDGETED IMPACT FOR 2010				\$ 42,930.00	\$ -	\$ -

9) Other Comments

[Handwritten Signature]

04/07/10

Commissioner Sign Off

Date (mm/dd/yy)

Water, Waste Water & Drainage

BUSINESS OVERVIEW

Service Statement:

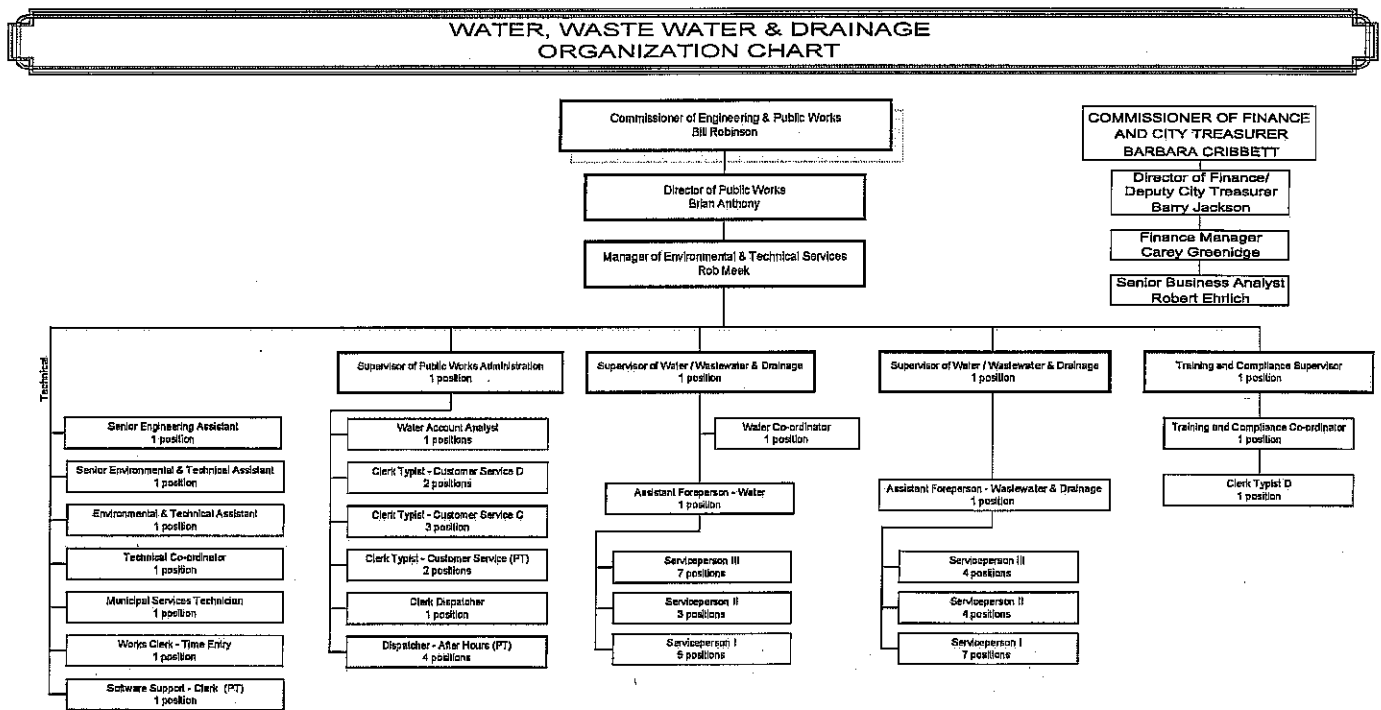
The Water Division is committed to the distribution of safe, potable drinking water to all City of Vaughan residents through compliance with Provincial legislation and regulations as well as the continuous improvement of effective and efficient service in response to growth.

The Waste Water and Drainage Division is responsible for the maintenance of waste water and drainage collection infrastructure and the control of environmental hazards through compliance with Provincial legislation and regulations as well as the continuous improvement of effective and efficient services in response to growth.

The Finance Department coordinates with Public Works in providing revenue and cost projections for water and wastewater activities, user rates and financial reporting. As well, the Finance department coordinates with PowerStream regarding billing and collection of water and wastewater accounts.

Service Profile:

Organizational structure



FTE Count:

	2005	2006	2007	2008	2009
Full Time	27	30	30	36	45.5
Part Time/Contract	1.63	1.63	1.72	2.03	0.93
Overtime	\$ 101,902.00	\$ 134,790.00	\$ 138,389.00	\$ 138,389.00	\$ 143,282.00

Key Stakeholders:

- Citizens and Businesses of Vaughan
- York Region
- Conservation Authority
- Mayor and Council
- Ministry of the Environment
- PowerStream

Water, Waste Water & Drainage

Work Plan:

Link To Vaughan Vision:

- Pursue Excellence in Service Delivery
- Enhance and Ensure Community Safety, Health & Wellness
- Lead and Promote Environmental Sustainability
- Support the Professional Development of Staff
- Maintain Assets & Infrastructure
- Ensure Financial Sustainability

2010 Business Plan Objectives/Accomplishments:

	Status	Measurement
1. PSAB process in partnership with Public Works, Engineering, and Capital Finance	Q1'10	In compliance with legislation
2. Continual improvement of the Drinking Water Quality Management System	Q4'10	System implemented
3. Continue the lead testing	Q4'10	Ongoing
4. Develop a six year financial forecast-licensing-SWDA	Q6'10	Forecast completed

Key Performance Indicators

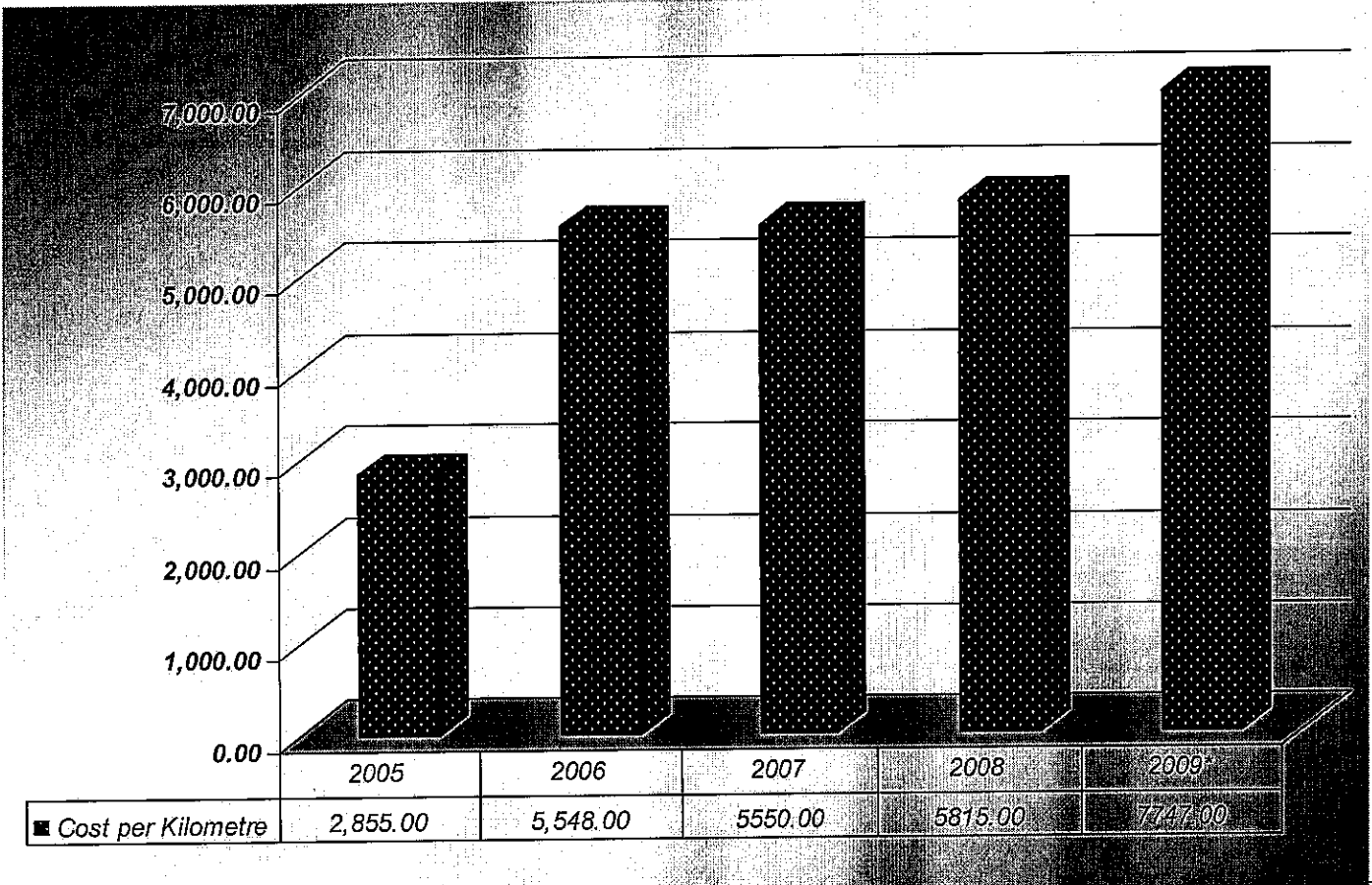
1. Operating cost per kilometre of water distribution system
2. Operating cost per kilometre of wastewater collection system
3. Operating cost per kilometre of storm collection system
4. Operating cost per kilometre of rural storm collection system
5. Number of watermain breaks per 100 kilometres of distribution pipe
6. Number of adverse samples vs. total number of samples
7. Number of kilometres of sewermain flushed per year

Water, Waste Water & Drainage

BUSINESS OVERVIEW

Measure: Operating Cost per Kilometre of Water Distribution System

Definition:



Key Conclusion:

The cost per kilometer of water distribution increased 20% over the four years from 2006 to 2009 mainly due to increased maintenance activity

2008 to 2009 increase primarily due to operating fund transfer representing \$1,088 per km.

Notes about the Measure:

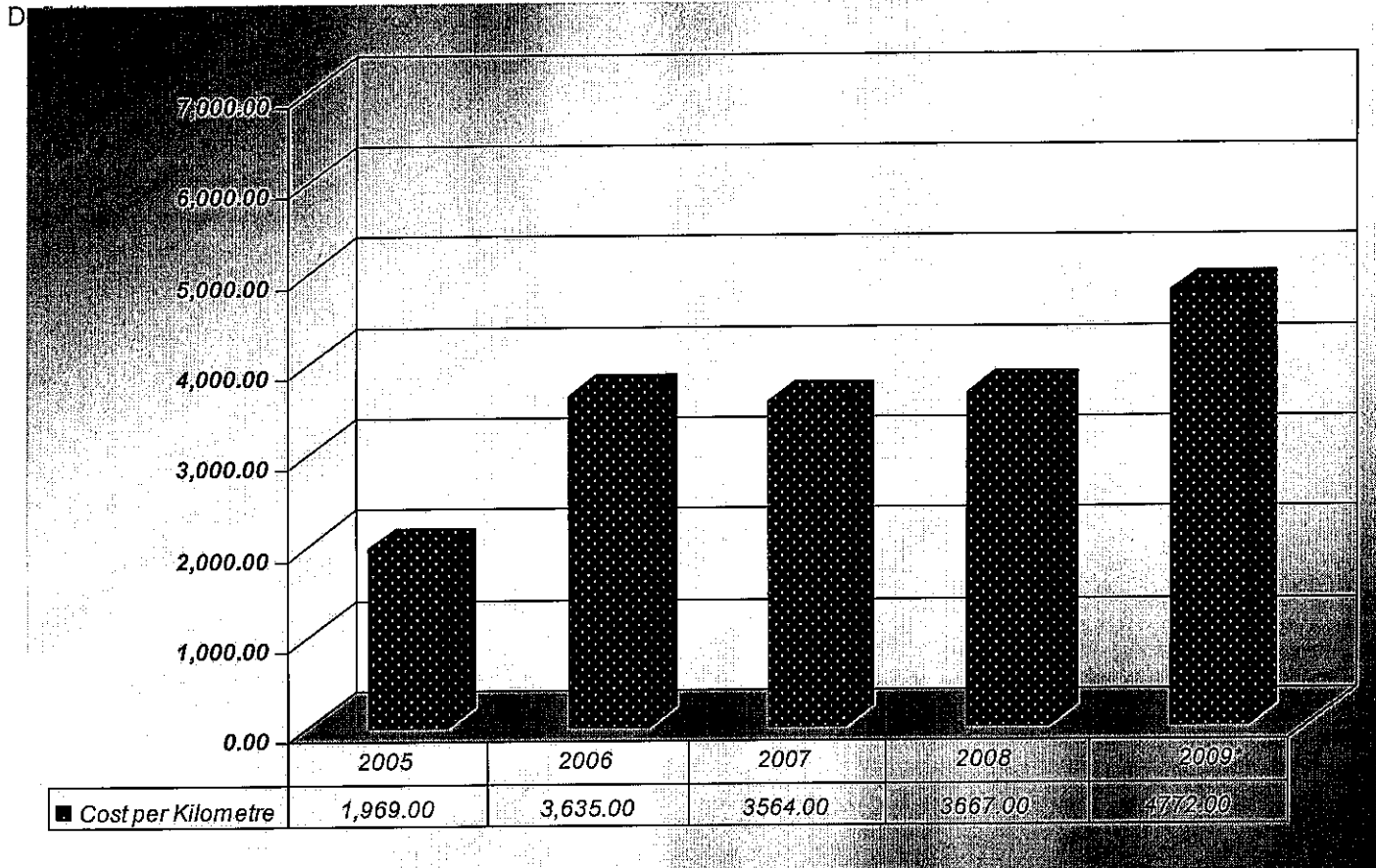
The Province changed the costing methodology in 2006 and thus the year to year comparison is impacted.

* 2009 Preliminary measure pending final FIR submission

Water, Waste Water & Drainage

BUSINESS OVERVIEW

Measure: Operating Cost per Kilometre of Wastewater Collection System



Key Conclusion:

The cost per kilometer of wastewater collection system increased 31% over the four years from 2006 to 2009 mainly due to increased maintenance activity

2008 to 2009 increase primarily due to operating fund transfer representing \$600 per km.

Notes about the Measure:

The Province changed the costing methodology in 2006 and thus the year to year comparison is impacted.

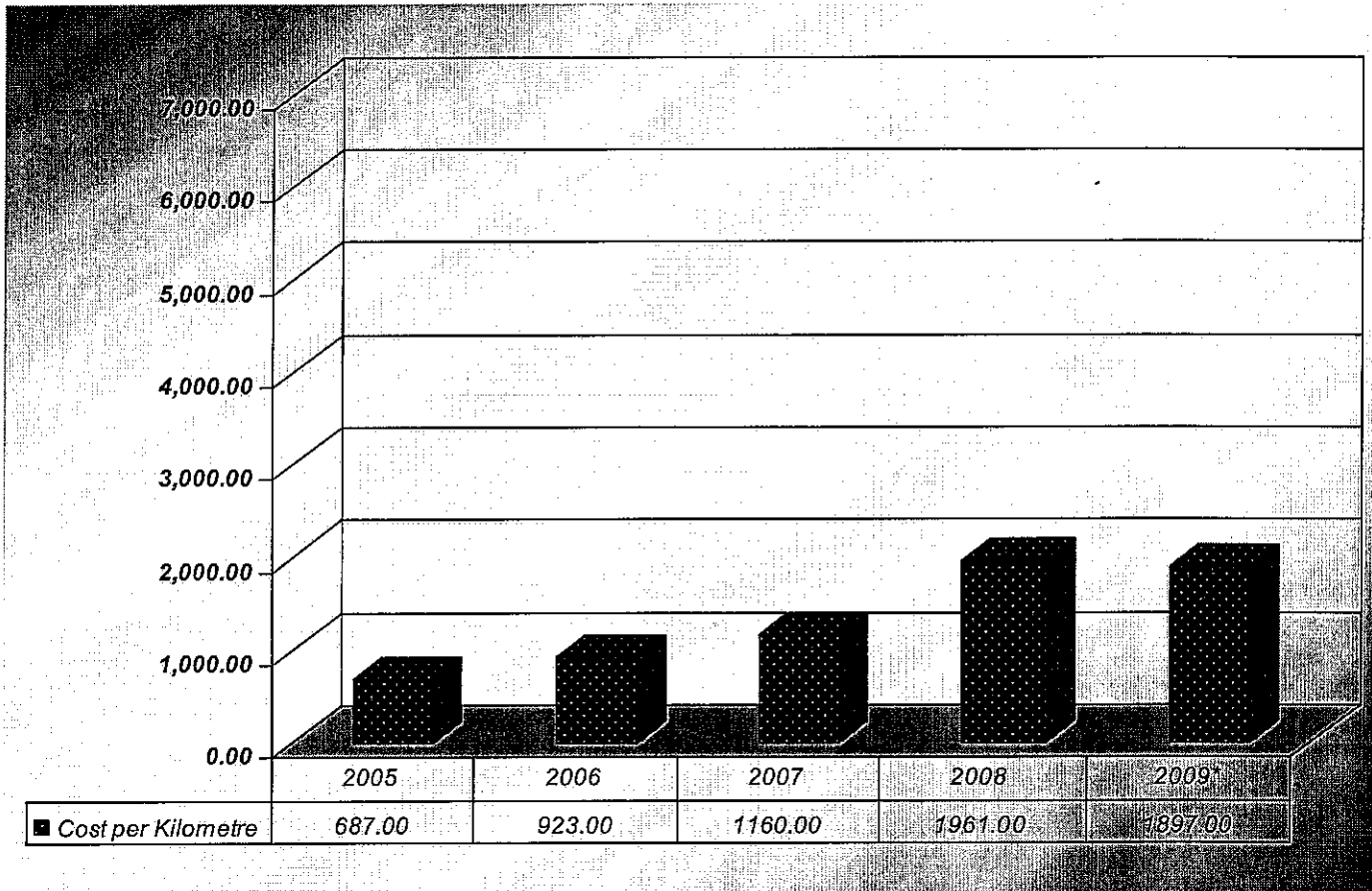
* 2009 Preliminary measure pending final FIR submission

Water, Waste Water & Drainage

BUSINESS OVERVIEW

Measure: Operating Cost per Kilometre of Storm Collection System

Definition:



Key Conclusion:

The cost per kilometer of the storm collection system remained unchanged 2008 vs. 2009.

Notes about the Measure:

The Province changed the costing methodology in 2006 and thus the year to year comparison is impacted.

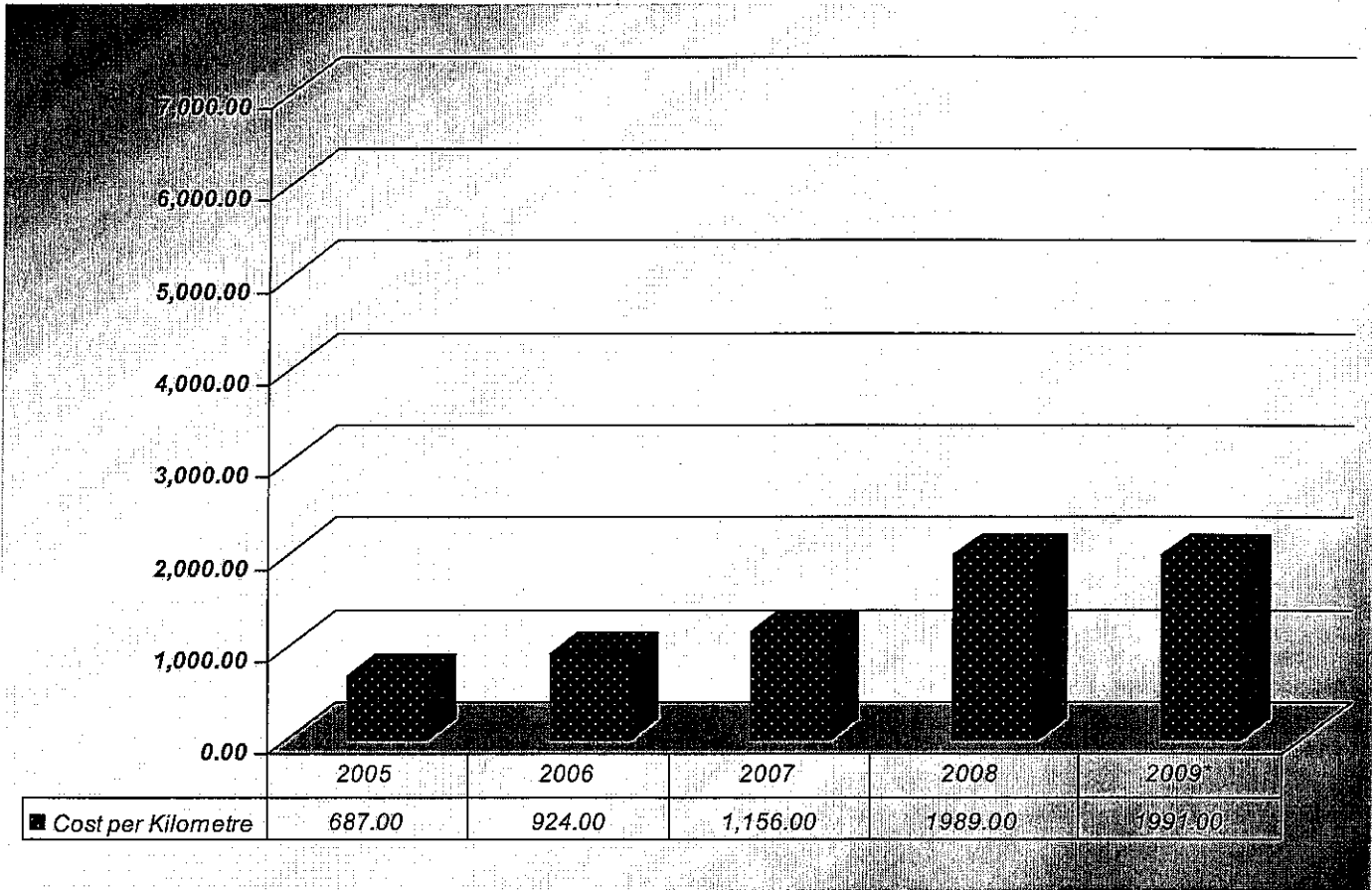
* 2009 Preliminary measure pending final FIR submission

Water, Waste Water & Drainage

BUSINESS OVERVIEW

Measure: Operating Cost per Kilometre of Rural Storm Collection System

Definition:



Key Conclusion:

The cost per kilometer of the rural storm collection system remained unchanged 2008 vs. 2009.

Notes about the Measure:

The amount of maintenance activity on the rural storm collection system is relative to the demand which has steadily decreased since 2004.

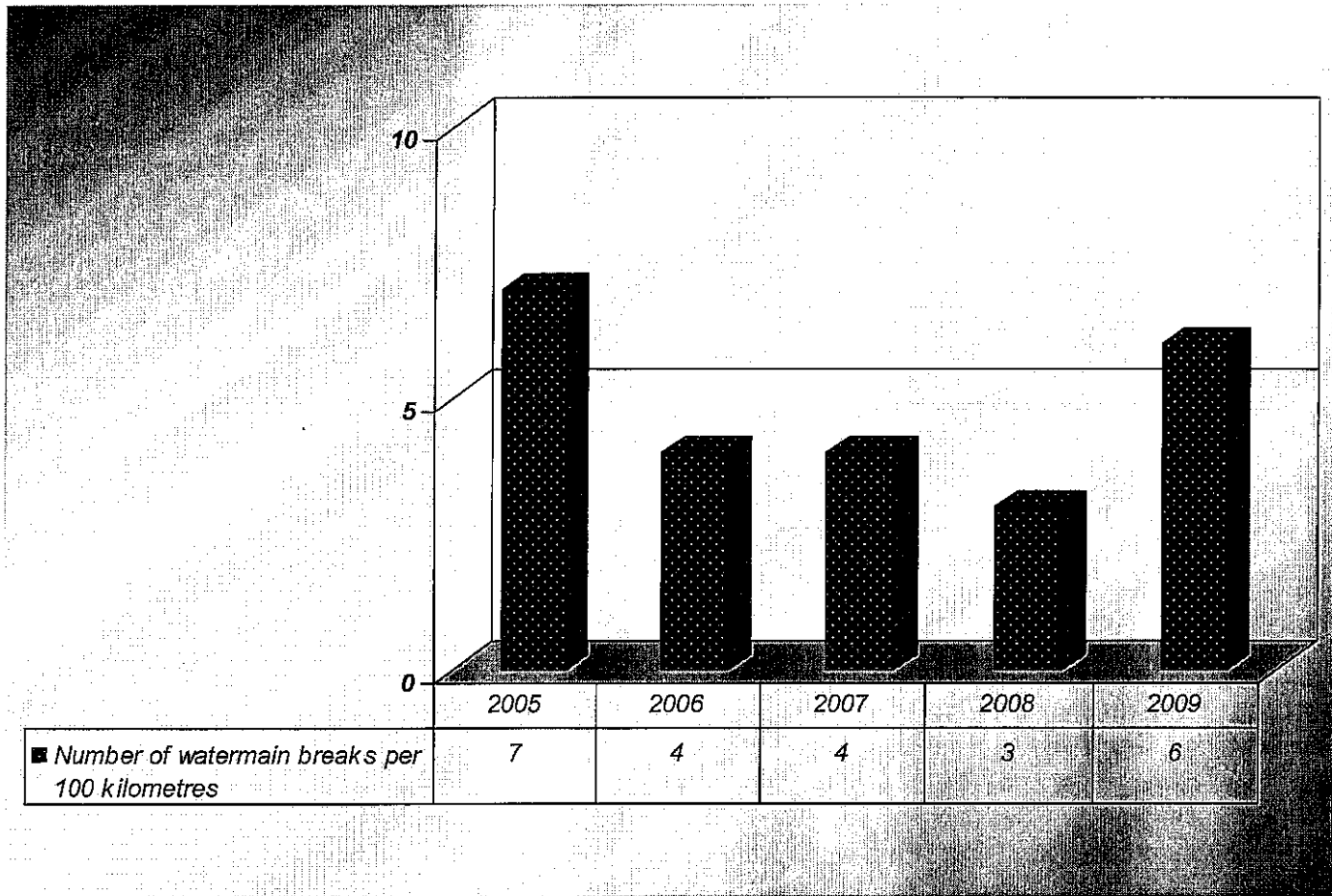
* 2009 Preliminary measure pending final FIR submission

Water, Waste Water & Drainage

BUSINESS OVERVIEW

Measure: Number of Watermain Breaks per 100 Kilometres of Distribution Pipe

Definition:



Key Conclusion:

Watermain breaks increased in 2009. A number of these watermains are at the end of their life and are being replaced in 2010.

Notes about the Measure:

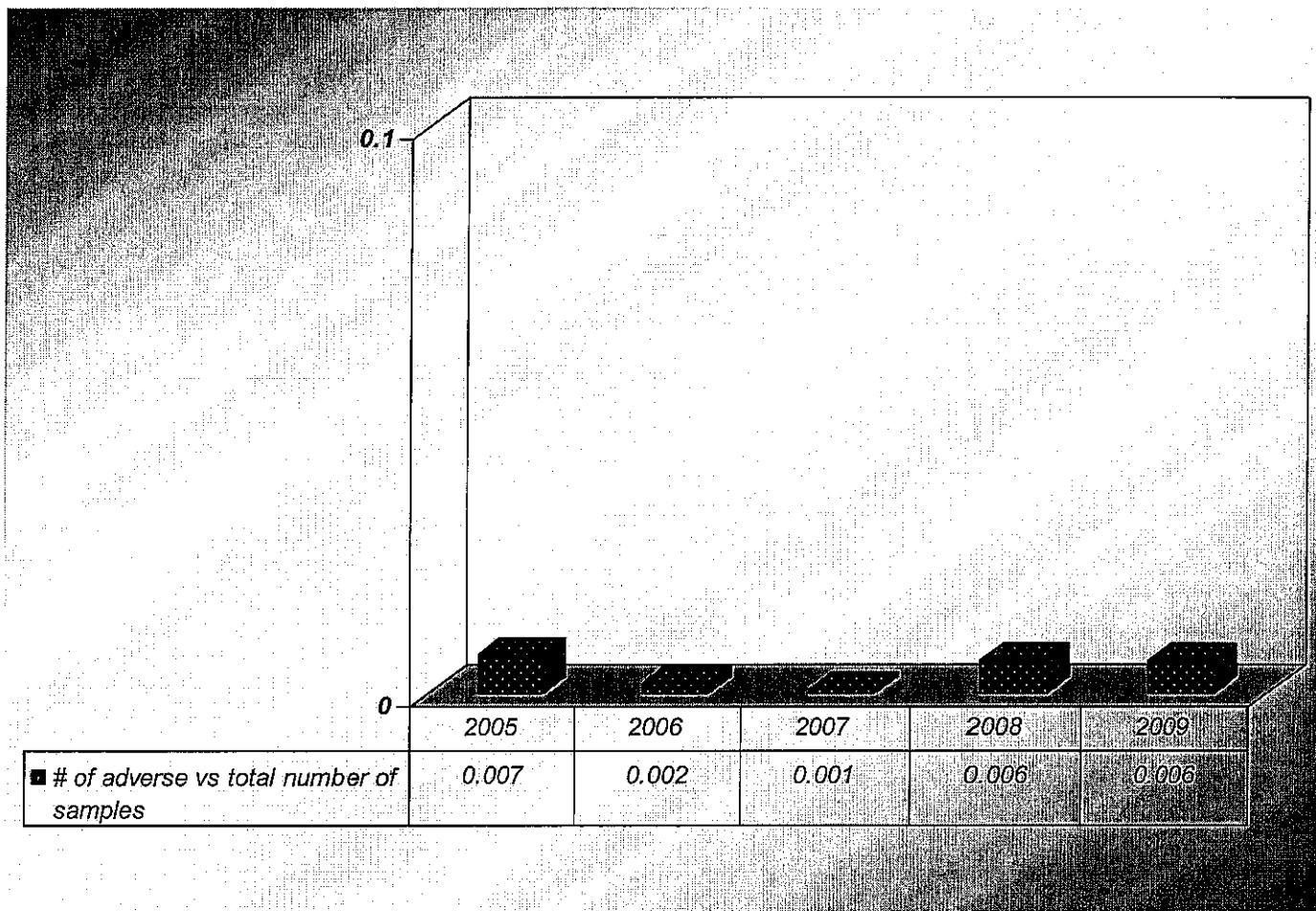
There has been no increase break activity in areas of the anode protection program which has been applied to the watermain thus slowing down the corrosion process. The break activity in 2009 was mainly in areas of watermain replacement for 2010.

Water, Waste Water & Drainage

BUSINESS OVERVIEW

Measure: Number of Adverse Water Samples vs. Total Number of Water Samples Taken

Definition:



Key Conclusion:

The number of adverse vs. total water samples in 2009 reflects the same levels seen in 2008. These occurrences are less than the Provincial average for municipalities of equivalent size.

Notes about the Measure

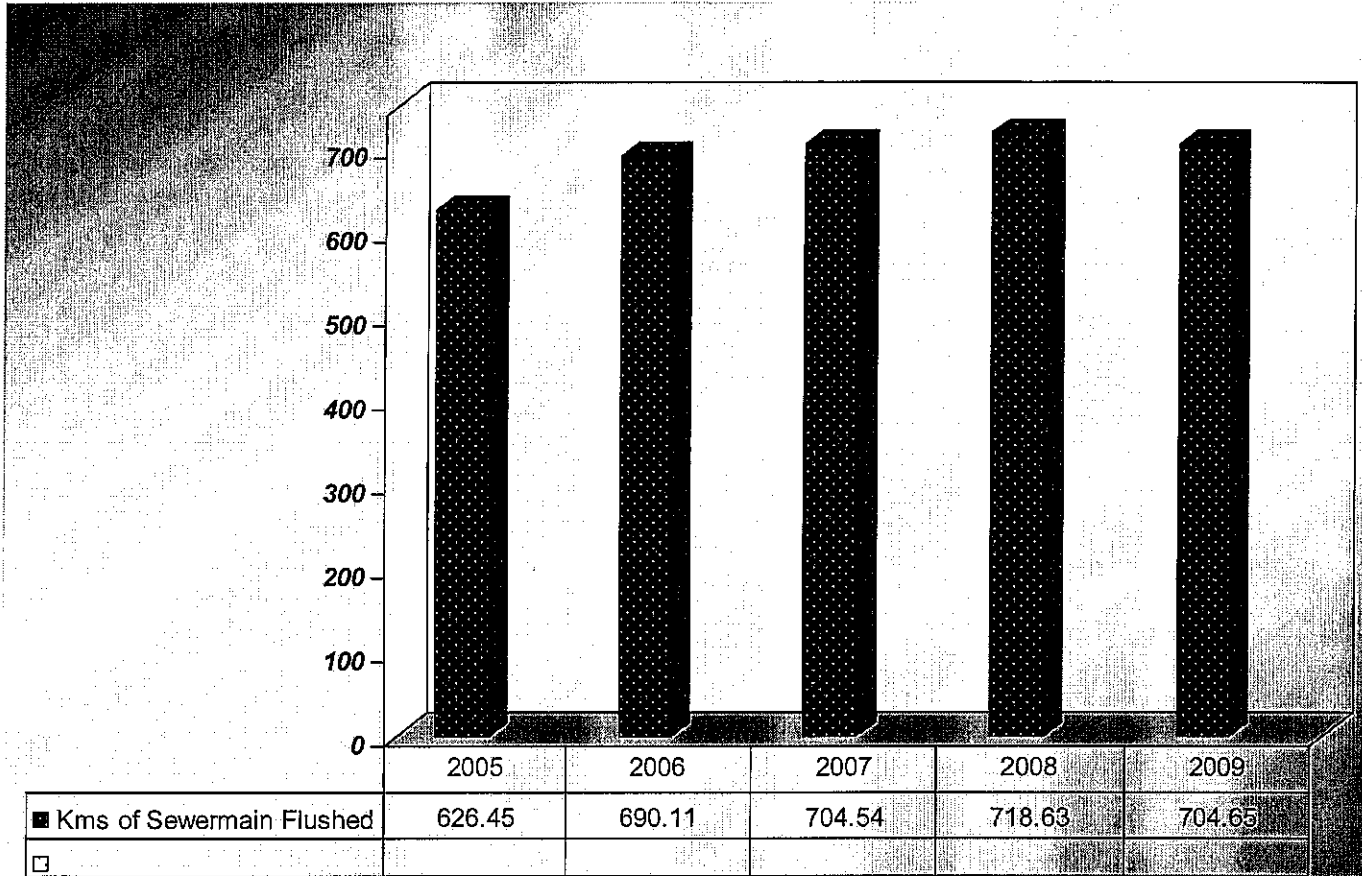
In June 2005 the City mandated a flushing and testing program for all new developments within the City. As well, new locations were added to the existing flushing program for dead end watermains the result of assumed subdivisions. These changes were in response to O. Reg. 170/03 of the Safe Drinking Water Act.

Water, Waste Water & Drainage

BUSINESS OVERVIEW

Measure: Number of Kilometres of Sewer Main Flushed per Year

Definition:



Key Conclusion:

The number of kilometers of sewers flushed in 2009 is fairly consistent with previous years.

Notes about the Measure:

This activity will continue to grow due to continuing development activity.