

**2010 WASTEWATER
Budget Overview**

Budget Summary \$'000s	2009 Budget	2009 Projection	2010 Proposed	09 vs 10 Variance	2011 Forecast	2012 Forecast
Current Budget – Total Expenditures	\$101,728	\$95,344	\$102,246	\$518	\$105,313	\$108,473
Current Budget – Total Revenue	\$735	\$825	\$735	\$0	\$757	\$780
Net Expenditure, before Billings	\$100,993	\$94,519	\$101,511	\$518	\$104,556	\$107,693
Total Levy and Billings	\$100,993	\$91,921	\$101,511	\$518	\$104,556	\$107,693
Net Expenditure, after Billings	\$0	\$2,598	\$0	\$0	\$0	\$0
Full-Time Equivalents (FTEs)	127.0	127.0	129.0	2.0	131.0	133.0
New Capital			\$95,329		\$209,912	\$150,505

2010 BUDGET HIGHLIGHTS:

Current Budget

The proposed 2010 Total Budget is \$102.2 million and 2010 Net Budget is \$101.5 million, which is a \$518.0 thousand or 0.5 per cent increase over the 2009 Budget. The main drivers contributing to this minimal budget increase include:

- \$2.0 million in inflationary cost increases; predominantly made up of \$1.6 million in chemical costs and \$232.0 thousand in liability insurance premiums at the treatment plants
- This is largely offset by \$1.9 million in efficiencies expected in hydro and natural gas charges, due to the positive impact of Treatment Plant processes upgrades
- Though the 2010 budget increase is minimal, the increase in utility rate is being driven mainly by a shortfall in projected revenues, as a result of the economic downturn, ongoing wet weather trends, success in conservation programs, etc.

Staffing

The 2010 Budget includes a request for two additional Full Time Equivalents (FTEs), at a budgeted cost of \$130.0 thousand.

- Two Plant Operators are requested in order to ensure that the existing Plant Operators as well as the Water/Wastewater Operator II's satisfy and maintain their minimum position licensing requirements, as a result of more stringent guidelines, to provide for succession planning and the availability of experienced operators as more communal treatment plants come on line.

Capital

The 2010 Capital Budget program is \$95.3 million, which includes funding for new projects as well as additional funding for existing projects. The Capital Budget is funded as follows:

- Development Charges: \$66.3 million, or 69.5 per cent
- External Recoveries: \$0.1 million, or 0.2 per cent
- Internal Reserves: \$28.9 million, or 30.3 per cent
- In addition, Infrastructure Stimulus Funding has been approved for five Wastewater capital projects, totalling approximately \$20.1 million. Of this total, the Region's share is approximately \$6.7 million, while the Federal and Provincial Government's share is approximately \$13.4 million.

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Section I. Existing Services and Service Levels:

The Wastewater Program's mandate is to manage, collect and treat municipal wastewater and related support services in an efficient and customer focused manner which meet the needs and expectations of the customers of Peel Region while respecting the environment, and complying with respective legislation.

The key activities that the Wastewater Program is responsible for include:

1. Capital Works, Wastewater Treatment

- Treatment of Peel's Wastewater through management of Contract Operations and Maintenance provided by Ontario Clean Water Agency (OCWA) and management of Capital and Major Maintenance programs for the Regional Wastewater Treatment Plants
- Regulatory Compliance, Monitoring and Reporting
- Wastewater Treatment Performance Assessment and Process Improvements

2. Capital Works, Wastewater Collection and Communal Treatment

- Environmental Assessments (EA) and Conceptual Designs
- Preliminary Design and Computer Aided Design (CAD) requirements for Wastewater Capital Projects
- Detailed Design and Construction Procurement
- Construction Contract Administration

3. Wastewater Collection Operations and Odour Control

- Operation and Maintenance of the Linear Wastewater Collection System
- Operation and Maintenance of Wastewater Pumping Facilities
- Odour and Corrosion Control as well as Communal Wastewater Treatment Systems
- Emergency Response to Blocked Laterals and System Surcharging
- Inspection and Flushing of Local and Trunk Sewer Mains
- Sewer repairs both mainline and laterals on municipal property

4. Wastewater Program Planning

- Capital Infrastructure Planning and Capital Budget Development
- Current Budget Development Coordination
- Inspection/Condition Assessment of Linear Sewer Infrastructure for repair schedule
- Development of Inflow and Infiltration Strategy and Remediation Program
- Administration of Local Improvement Process for Wastewater System
- Staff Development in Leadership and Water and Wastewater Operator Training
- Wastewater Benchmarking Data Collection and Analysis
- Business Improvement Facilitation Services

5. Environmental Control

- Environmental Spill Response and Emergency Procedures Development
- Enforcement of the *Sewer Use By-Law*
- Laboratory Services to Analyze Water Quality and Wastewater Effluent for Treatment Facility and Industry Compliance Industry
- Inspections for Sewer Use Compliance Sewer Surcharge and Sewer Charge Appeals

The existing wastewater system consists of two lake-based wastewater treatment plants, one communal wastewater treatment plant, one odour/corrosion control facility, 39 wastewater pumping stations, over 3,200 kilometres of local and trunk sewer mains and over 45,000 access chambers. The system is designed and managed in a manner so that all municipal wastewater is efficiently collected and treated from the 283,662 customer accounts.

Levels of Service

The Region carries out numerous activities on the wastewater system. These activities are achieved using internal resources, our major service provider (OCWA), external contractors and consultants, partnerships with area municipalities and conservation authorities, as well as provincial and federal government.

Regulations and Standards that mandate Service Level fall within the following consolidated laws:

- *Fisheries Act (R.S., 1985, c. F-14)*
- *Ontario Water Resources Act (R.S.O. 1990, Chapter O.40)*
- *Sustainable Water and Sewage Systems Act (S.O. 2002, Chapter 29)*
- *Environmental Protection Act (R.S.O. 1990, Chapter E.19)*
- *Environmental Bill of Rights (S.O. 1993, Chapter 28)*
- *Regional Municipality of Peel, By-Law Number 90-90 (Sewer Use)*

The Region of Peel's lake based wastewater treatment plants are Class IV, the communal wastewater plant in Inglewood is Class II, and the wastewater collection system is Class III. These Ministry of the Environment (MOE) classifications dictate the standards for operations and maintenance as described below.

The Certificates of Approval for wastewater treatment plants state the required MOE criteria for plant effluent and air emissions quality. Region of Peel's two lake-based wastewater treatment plants are operated under contract by the OCWA. The service agreement that OCWA has with the Region of Peel requires standards of effluent quality that meet or exceed the limits mandated by the MOE.

Wastewater services are operated 24/7, 365 days a year. Operations in the collection system have two shifts (day/afternoon) which provides for weekday 16 hour staff coverage, and on-call staff availability after hours to respond to customer needs. All operations staff are highly trained and licensed under *O.Reg.129/04 of the Ontario Water Resources Act (Licensing of Sewage Works Operators)*. Mandatory training is required on an ongoing basis for operations staff to retain and upgrade operating licences.

Peel Region's *Sewer Use By-Law* regulates discharges into the sanitary and storm sewers owned and operated by the Region. Peel's by-law establishes enforceable limits on materials which may result in untreated wastewater and other pollutants entering Lake Ontario, or any of its tributaries within Peel's

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boundaries. The *Sewer Use By-Law* authorises the Region to apply Quality Sewer Surcharges to Industries who discharge such materials or untreated water into the sanitary sewers. There are currently 3 parameters under which these surcharges apply;

- Biochemical Oxygen Demand (BOD)
- Total Suspended Solids (TSS)
- Oil and Grease

Currently 91 companies are on the Surcharge List.

Key Initiatives in 2009 included:

Managed Existing and New Infrastructure to Sustain and Accommodate Growth

- Continued expansion of G.E. Booth (Lakeview) and Clarkson Wastewater Treatment Plants
- Reprioritization of long term capital plan to accommodate growth-related projects
- Enhanced coordination of capital work with area municipalities
- Successfully completed negotiations of a 10 year agreement with the OCWA for the Operations and Maintenance of the South Peel Facilities
- Brought the operations of the Inglewood Wastewater Treatment Plant (WWTP) and York Odour Control Facility (OCF) in-house on July 6, 2009

Promoted Environmental Protection and Stewardship through the Wastewater Program

- Continued improvements within the Inflow and Infiltration Program (I & I)
- Working with large industrial sites to address the quality of their wastewater streams
- Enhanced coordination between the Region of Peel and the Toronto Region and Credit Valley Conservation Authorities
- Performed optimization review of Laboratory Services with recommendations to improve customer service and business processes
- Enhancing the Closed Circuit Television (CCTV) Inspection Program of sanitary sewers with continuous improvement initiatives
- Centralized and improved the data gathering for benchmarking to reduce workload for staff.
- Co-developed a new Spills Communications Protocol
- Developed a Wet Weather Event Protocol for the Park Royal area
- Implemented a new telephone queue system for the Water/Wastewater Clerks at Wolfedale; to improve the balancing of workload amongst the group and to improve customer service

Provided Innovative, Leading Edge Services

- Continued enhancement of the wastewater system modelling software to accurately assess the impacts of proposed growth on the wastewater system
- 24 hour Emergency response to residential sewer lateral back-ups and inspection
- Award-winning operator training program
- Development of Inflow and Infiltration Strategy and Remediation Program
- Successfully completed negotiations of OCWA 10 year contract

Received Distinguished Awards

- Won the Association of Consulting Engineers of Canada Award of Excellence for the expansion of the G.E. Booth (Lakeview) Wastewater Treatment Plant

Section II. Resources to Deliver 2009 Services:

Current \$'000	2008 Actual	2009 Budget	2009 Projection	2009 Variance Under/(Over)
Total Expenditures	\$93,417	\$101,728	\$95,344	\$6,384
Fees and Service Charges	\$1,074	\$735	\$825	\$90
Levy, Billings and Holdback	\$92,820	\$100,993	\$91,921	\$9,072
Net Cost, after Billings – (Surplus)/Deficit	\$(477)	\$0	\$2,598	\$2,598
FTE	130	127	127	0

2009 Budget:

As shown in the table above, the 2009 current total budget was approved at \$101.7 million. The budget can be divided into three main areas as follows:

1. Operations and Maintenance of Wastewater treatment plants and collection system – \$50.2 million
2. Contributions to Reserves – \$30.1 million
3. Support services for the Operations and Maintenance of the Wastewater treatment plants and collection system – \$21.4 million

Operations and Maintenance:

The most significant costs in the Operations and Maintenance of the Wastewater system are:

- OCWA South Peel Operations and Maintenance contract and additional services – \$12.7 million
- Salaries and Wages – \$11.1 million
- Hydro and Natural Gas – \$11.0 million
- Chemicals – \$6.1 million

Contributions to Reserves:

In 2009, \$30.1 million will be contributed to Capital Reserves for future wastewater infrastructure needs.

2009 Projection:

The Wastewater Program is projecting a net deficit of \$2.6 million by year end, mainly due to an anticipated shortfall of \$9.1 million in billings, largely in residential and Institutional/Commercial and Industrial (ICI) billings, due to a combination of economic downturn and wet weather. This decrease will be partially offset by expected savings of \$6.5 million in Chemical Supplies, Hydro and Natural Gas Costs, OCWA Services and Miscellaneous Contractor Costs.

It is important to note that new processes and upgrades to the treatment plants have substantially reduced the consumption of hydro and natural gas.

Section III. Performance Measurement/Benchmarking:

Wastewater Program staff recognizes benchmarking as a useful management tool that utilizes financial and performance data to assist in the decision-making process. The Wastewater Program has been participating in the Ontario Municipal CAO's Benchmarking Initiative (OMBI) since 1997 and the National Water and Wastewater Benchmarking Initiative (NWWBI) since 2000. In 2001, the Province of Ontario initiated the Municipal Performance Measurement Program (MPMP) as part of the annual Financial Information Report, which includes Wastewater Program Performance Measures.

In addition to the performance benchmarking initiatives above, the Region of Peel is also a member of the International Water Authority (IWA) Process Benchmarking Initiative. The purpose of this group is to investigate and benchmark the various organizational approaches and business processes involved in running the Wastewater Program worldwide.

In 2008, the Region of Peel has performed well in Wastewater Program as compared to the 15 participating municipalities. A summary of these measures can be viewed by visiting the OMBI results on the Region of Peel website at <http://www.peelregion.ca/finance/ombi/>.

As an example, Wastewater ranked in the preferred performance areas for:

- Cost of Treatment Operations and disposal of wastewater
 - Indicating Peel operates the treatment facilities in an efficient and cost effective manner while respecting the environment
- Operations and Maintenance of the collection system
 - Indicates superior customer service, cost effective delivery of service and efficient maintenance methods, which reduces the incidence of sewer blockages

Section IV. 2010 Base Pressures:

Natural Gas and Hydro costs are a large component of the Wastewater program's operating costs. New processes and upgrades to the treatment plants have resulted in substantial operating cost reductions in these areas. As a direct result of these savings, there will be a decrease to the base cost for the Wastewater Program of \$20.0 thousand as explained below, while still supporting the Regional Programs at the 2009 approved service level. Further details are identified as "2010 Base Changes" in [Appendix I](#).

Annualization:

N/A

Cost of Living Increase/Inflation:

A cost of living increase of \$2.0 million is anticipated for 2010, as compared with the 2009 budget. This is comprised of \$1.6 million in increased chemical costs, \$232.0 thousand in increased liability insurance premiums at the treatment plants, \$87.0 thousand in annual salary, wage, and benefit cost increases and \$74.0 thousand in other cost increases.

Section V. Cost Mitigation Through Efficiencies and Recoveries:

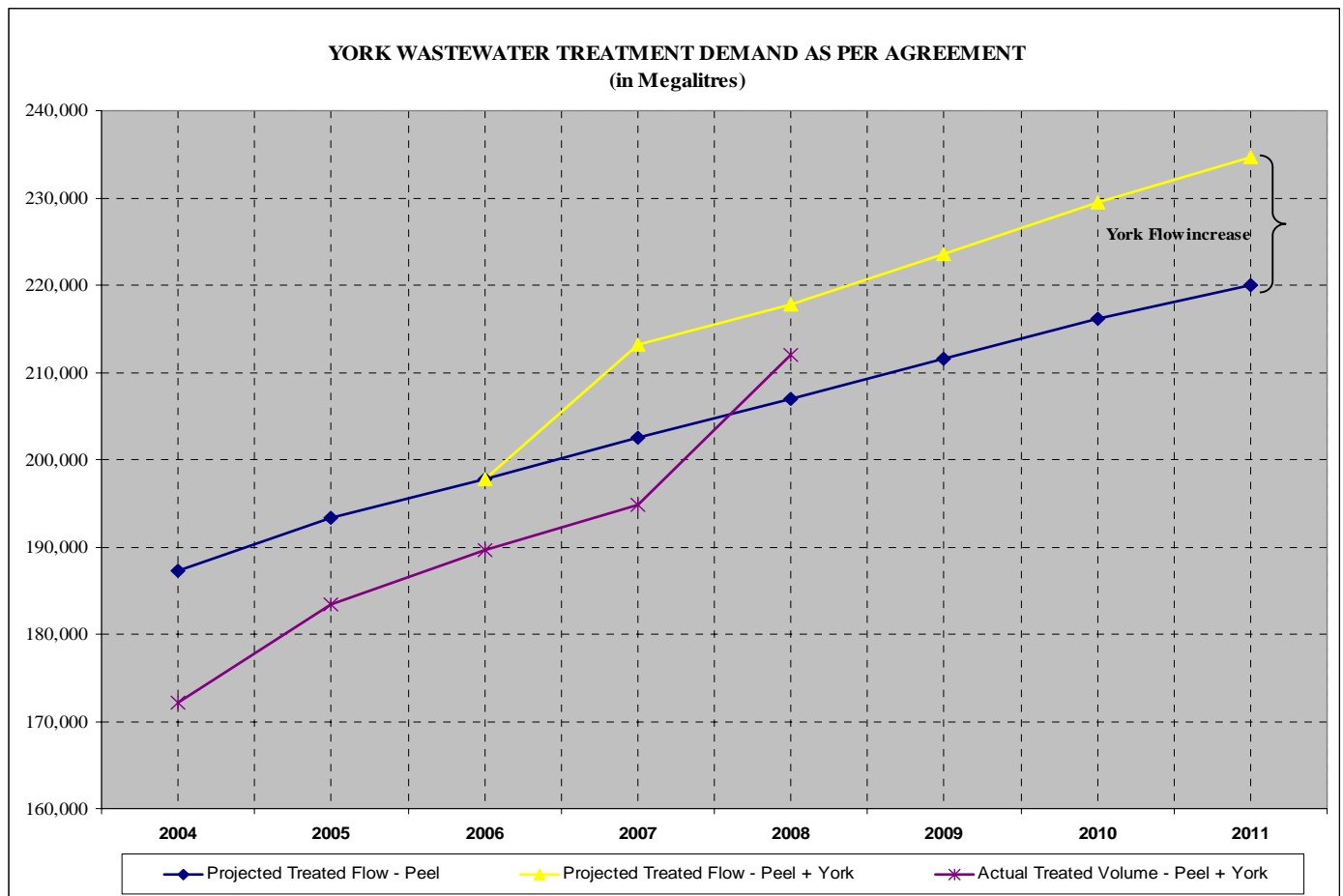
Efficiencies:

The \$2.0 million increase in the cost of living is mitigated by savings in Natural Gas and Hydro costs of \$1.9 million due to a combination of process changes and upgrades to the treatment plants. Further reductions of \$143.0 thousand are expected in the costs for Laboratory Services, as a result of more sampling being done in-house and therefore decreased sub-contracting costs. These savings contribute to a net base increase of \$20.0 thousand in 2010, as compared to 2009.

Recoveries:

The Region of Peel currently supplies water and processes wastewater to York Region. The synergy by fully utilizing Peel facilities is not only shown on the capital side, but also on the operating side. The agreement indicates that the demand to treat Wastewater from York Region will increase year over year. Maximizing the capacity usage definitely helps ease the burden on the Peel wastewater rate, given that most of the costs within treatment plants are fixed.

The following chart highlights the impact of the increased demand anticipated from York Region as per the York-Peel agreement.



* Note: Treatment of York Region’s Wastewater did not begin till December 2006.

As indicated in Appendix I, the Wastewater program will recover the full amount of the increase (\$408.0 thousand) in York reserve contributions (The capital component of York billings) from York Region as

per the agreement. For the operating component, there is a \$262.0 thousand increase in York billings due to the increase in volume treated for York Region, which, to some extent, mitigates the negative impact driven by the consumption drop in the Industrial, Commercial and Institutional (ICI) as well as residential sector within the Region of Peel.

Section VI. Challenges and Emerging Trends:

1. The Wastewater Program continues to see high rates of growth in terms of installation of linear infrastructure related to development
2. An aging workforce, retirements and shortage of skilled workers have resulted in challenges for all the programs
3. Legislation for sustainable full cost recovery – *Bill 175 Sustainable Water and Sewer Systems Act* along with the proposed Public Sector Accounting Board (PSAB) standards and Tangible Capital Asset Accounting (TCAA) standards, will require that long term sustainability plans are put in place and that municipalities account appropriately for capital infrastructure. The Wastewater Program will be required to provide extensive input to Corporate Finance in order to meet the needs of the legislation.
4. Over the past several years, energy (electricity and natural gas) unit costs have increased significantly. This trend is not expected to change.
5. The unit cost and demand for treatment chemicals continues to rise as raw materials worldwide increase in price. The operator OCWA at the South Peel facilities is able to purchase chemicals at a bulk rate for all of its customers, which mitigates the impact of rising chemical costs for the Region of Peel. The 10 year OCWA contract has been approved by Council in June 2009.
6. The Region's sewer infrastructure continues to age and requires more investment in preventative maintenance and inspection. The Wastewater Program is working with Corporate Asset Management to develop a comprehensive asset management plan for the future.
7. Weather patterns have brought more frequent rain storms of increased intensity. The impact of these storms on Regional waterways and in the form of inflow and infiltration in the Regional sanitary sewers will continue to put pressure on the sanitary sewer system and could cause surcharging into the environment and into homes as happened recently along the Cooksville Creek. The recently approved Inflow and Infiltration (I and I) Strategy will assist the Region in measuring the impact of these storms in the form of inflow and infiltration and will allow staff to tailor the Infrastructure Linear Assessment Program accordingly.
8. The terms and conditions set to qualify for Infrastructure Stimulus Funding present challenges to resources, internal and external, and meeting timelines.

Section VII. 2010 Program Pressures – Current:

The new budget pressures for the Wastewater Program in 2010 total \$538.0 thousand, which includes an increased contribution to reserves of \$408.0 thousand and increased staffing costs due to growth of \$130.0 thousand. These New Pressures for 2010 when combined with the 2010 Base Changes result in a net current budget pressure increase of \$518.0 thousand or 0.5 percent in 2010 over 2009. Details are identified in [Appendix I](#).

Growth:

The single growth element of the new budget pressures in 2010 is the staffing cost for two new FTEs, which amounts to \$130.0 thousand. These FTEs (Plant Operators) are being requested in order to support the Wastewater program, by ensuring that the Operators' minimum licensing requirements are satisfied and maintained, in order to be compliant with strict regulations.

Service Demand:

N/A

Reserve Contributions:

The new budget pressures in the 2010 budget include an increase to the Wastewater Reserve Contributions for York of \$408.0 thousand. This increase in the reserve contribution is required as a condition of the York/Peel Agreement and is fully recoverable from York Region.

Other Pressures:

Fees and Charges for the 2010 budget are expected to remain at 2009 levels.

Though the 2010 budget increase is minimal, the increase in utility rate is being driven mainly by a shortfall in projected revenues, as a result of the economic downturn, ongoing wet weather trends, success in conservation programs, etc.

Staffing:

The Wastewater Program is requesting an increase of two additional full-time equivalents (FTEs) in 2010 as a result of growth. Wastewater had 127.0 Council approved FTEs in 2009. Including the addition of new FTEs being requested in this budget, the new proposed complement in the Wastewater Program will be 129.0 FTEs. Further details have been provided in the "Growth" section above.

User Fees:

There are some minor changes to the user fees for 2010, which are necessary to better reflect the recovery of the true costs of the services provided. Details of Wastewater User Fees are highlighted in the Region of Peel's Executive Summary.

Section VIII. 2010 New Initiatives – Current:

The new initiatives for the Wastewater program comprise solely of staffing related costs. Details have been provided in Section VII under "Growth".

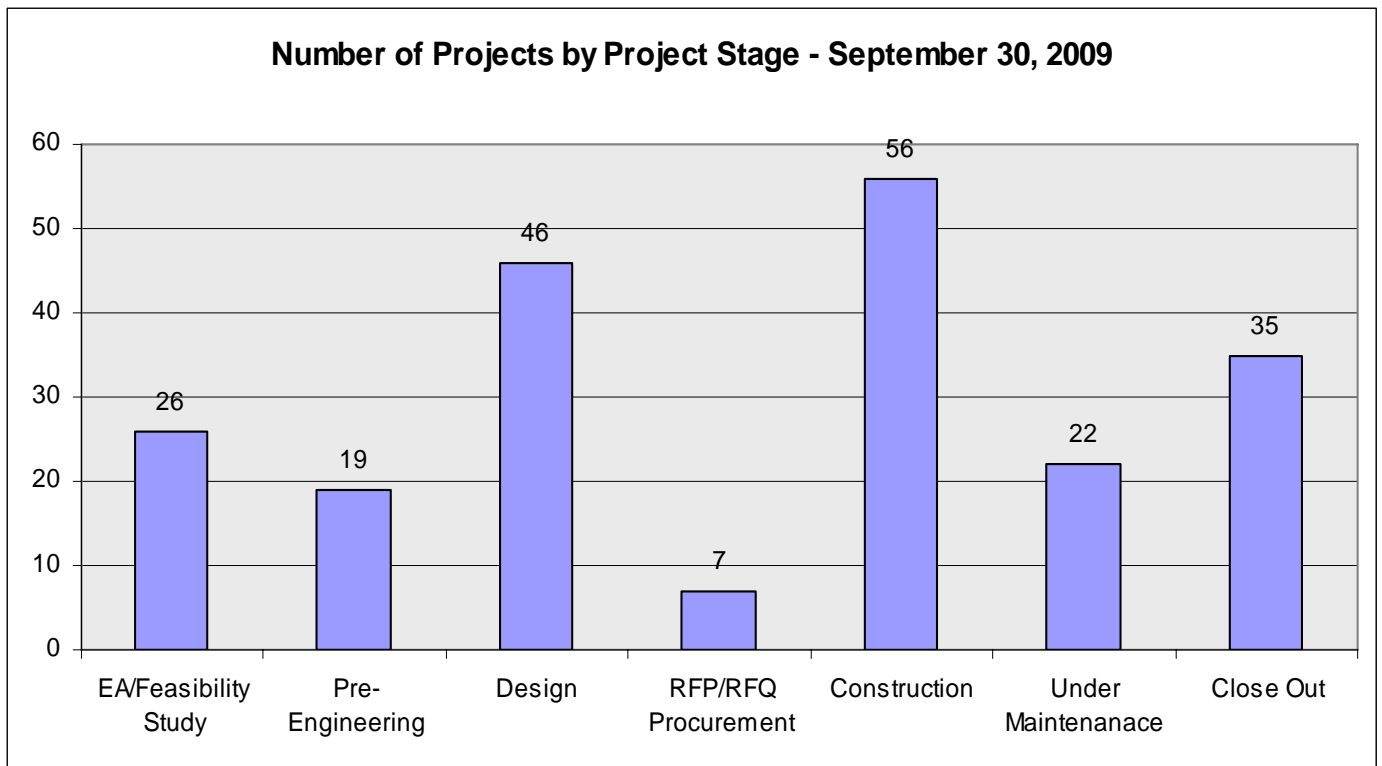
Section IX. 2010 Program Pressures – Capital:

Ongoing Capital Projects:

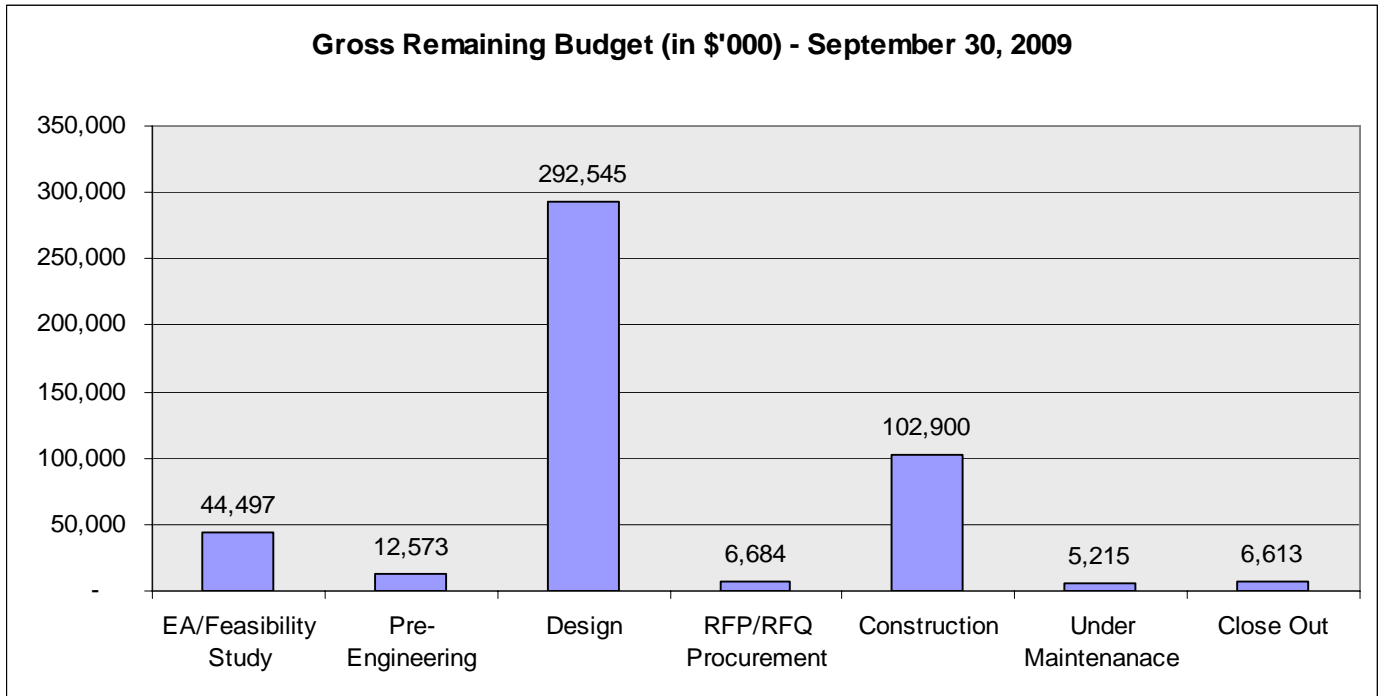
At the beginning of 2009, there were 235 active capital projects that had been approved by Council (including new 2009 projects and in-year approvals). From January 1 to September 30, 2009, 24 capital wastewater projects were completed and closed. These projects returned \$8.5 million back to reserves.

Based on the results as of September 30, 2009, there were 211 active wastewater projects with a total value of \$1.1 billion. From that total, \$650.2 million or 58 per cent has been spent, leaving approximately \$471.0 million worth of work yet to be completed.

Capital projects progress through several stages during the project lifecycle. The following two graphs provide the status of the active Wastewater projects by stage, and the breakdown of the gross remaining budgets by project stage as of September 30, 2009.



Active capital projects progress through several stages during their lifecycle, the graph above shows the number of projects in the Wastewater Program by project stage as of September 30th, 2009.



Active capital projects progress through several stages during their lifecycle, the graph above shows the Gross Remaining Budget in the Wastewater Program by project stage as of September 30th, 2009.

Accomplishments in 2009

In 2009, it is anticipated that \$84.6 million will have been spent in the Wastewater capital budget. Appendix II shows that as of September 30, 2009, \$65.4 million had been spent. A further \$19.2 million is expected to be spent by year end.

What Drives the Wastewater Capital Program

The capital program is driven by many factors, such as growth, the rate of growth, age and condition of infrastructure and rising costs. Many of these drivers are common to the other Public Works Programs. A major contributor to the rising costs of the capital program is in the use of directional drilling or tunnelling to install or repair linear infrastructure. This method of construction has a higher cost than the traditional open cut excavations. During the EA stage of a capital project, this method is usually preferred by the public as it is considered more environmentally friendly, and dramatically reduces inconveniences associated with the dust, dirt and traffic congestion of open cut excavations.

In addition, meeting York demand from Peel’s system continues to be a large portion of the Wastewater Capital Program. Nine active York-Peel joint projects for a capital budget of approximately \$336.8 million are currently being undertaken, which represents 30 per cent of the total Wastewater capital budget for all active projects. A significant portion of the York-Peel capital projects are related to expansion of the Lakeview Wastewater Treatment Facility and replacement of the Etobicoke Trunk Sanitary Sewer. York and Peel cost shares are determined by external parties and agreed upon by both parties.

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Major Wastewater Impacts:

The Wastewater 2010 Capital Budget and Forecast was impacted by the following specific factors:

- Detailed cost estimates based on EAs and Detailed Designs that were completed recently for many projects
- Greater number of projects being estimated on basis of tunnelling rather than open cut construction
- General increase in overall project and unit costs
- Current economic climate has delayed the timing needs for some planned capital growth projects and as a result a number of projects and /or components of already planned and existing capital projects have been deferred until later years within the Region’s ten year capital plan.

2010 Capital Program

The following table provides a summary of the value of the new capital plan for 2010, including the carry forward capital balance from 2009, and total capital available for the Wastewater Capital Program to spend in 2010.

Carry-Forward from 2009 \$'000	2010 New Capital \$'000	2010 # of Planned and New Projects	Total Capital Available \$'000	2011 – 2019 Forecast \$'000	2011 – 2019 # of New Projects
\$301,922	\$95,329	25	\$579,102	\$699,872	37

In addition to the carry forward of approved projects for 2009 in the amount of \$301.9 million, new capital of \$95.3 million is being requested in 2010 for already planned and brand new Wastewater capital projects. This includes increases in costs to existing projects and the costs of new projects in 2010. Details of the Wastewater Capital Program can be found in [Appendix II, III and IV](#).

When considering this summary, it is important to note that due to the appreciable and necessary lead time involved in many projects (changes to EA requirements, preliminary detailed design, property acquisitions, utility relocations and coordination with other jurisdictions), commitments need to be identified a number of years in advance of the project actually going to construction. It should be noted also that, while \$397.3 million in capital may be available to be spent in 2010, the cash flow will occur over the course of a number of years.

Major changes to the 2010 Capital Budget Program

The 2010 Capital Budget for the Wastewater Program is \$95.3 million, which represents a \$180.5 million decrease as compared with the 2010 Capital Budget Projection anticipated in 2009. Despite this, the Wastewater Capital Program continues to be very active. The ‘drivers’ behind the 2010 Capital Budget are summarized as follows:

Previously planned projects for 2010, as presented in the 2009 budget total \$17.1 million. These projects are detailed in [Appendix III](#) and the most significant are listed below:

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- Fletcher’s Creek Trunk Sewer Twinning \$3.5 million
- Future Sanitary Sewer Improvements and Upgrades \$2.2 million
- Sewer Relining in Peel \$1.2 million

The 2010 Wastewater Capital Budget is also requesting approval of two brand new projects for a total of \$3.2 million. These projects are detailed in Appendix III and are summarized below:

- Harborn Road, Mississauga Sewer \$3.0 million
- Wanless Drive, Brampton \$228.0 thousand

In addition, three projects totalling \$2.8 million have been advanced in order to meet developers’ timelines. These projects are detailed in Appendix III and are itemized below:

- McVean Drive \$1.4 million
- Steeles Avenue – Bram West \$0.9 million
- Springdale area, Brampton \$0.5 million

The Wastewater Capital Program is also requesting funding of \$58.1 million for existing projects, as identified in the 2009 budget. In addition, increased funding is being requested for 13 existing projects due to Construction Price Index (CPI), changes in scope of work, including tunnelling resulting from EA or design recommendations, totalling \$14.1 million. These projects are also detailed in Appendix III and the 6 most significant of these projects are summarized below:

- Port Credit WPS \$7.6 million
- Clarkson Treatment Plant \$1.9 million
- West Trunk Sewer Extension \$1.5 million
- Relocation McVean Haulage Station \$1.0 million
- Caledon GWTF Upgrades \$0.8 million
- Churchville/Creditview Local Improvement \$0.5 million

Capital Budget Outlook – Ten Year Plan Comparison (2010 – 2019)

The 2010 10 year Capital Budget and Forecast to 2019 for Wastewater Program is \$795.2 million, a \$73.4 million decrease over the 10-year Capital Budget Projection anticipated in 2009. Details of the 10-year capital plan are listed in Appendix IV.

Despite this decrease, there continues to be heavy activity in the Wastewater capital program, including a large budget increase of \$130.0 million in the 10-year capital plan, as a result of the next proposed expansion at the G.E. Booth (Lakeview) WWTP, which is scheduled for 2019.

Section X. Future Outlook:

2011 and 2012 Current Budget:

The 2010 Wastewater budget reflects some increases due to higher than base inflation on key commodities, especially chemical costs. The wastewater system continues to grow as development progresses and other areas concentrate on intensification, which will require additional resources to maintain the same level of service.

The estimated budget costs for fiscal 2011 and 2012 will potentially be driven by the following factors:

- Inflationary pressures on commodity use
- Increased reserve contributions to fund infrastructure replacement and renewal
- Increased costs associated with Linear Infrastructure Assessment.
- Efficiencies realized through Corporate reorganization

The estimated net budgets (before billings) for the Wastewater program are expected to be:

2011: \$104,556

2012: \$107,693

2011-2019 Capital Plan:

The current long term forecast is presented in [Appendix IV](#). Although the Ten Year Capital Plan has decreased in 2010 as compared to the projection in 2009, there is potential for it to increase in the future, as the Region accommodates various growth scenarios, namely, greenfield or intensification. The degree of intensification in specific locations could trigger up sizing to existing sanitary sewer infrastructure or twinning of sections of the linear infrastructure. The limits imposed on greenfield development in north Peel will result in a gradual shift to more intensification-based developments. In general, projects that take place in built-up areas have a higher cost associated with them with specific reference to tunnelling, which is the preferred construction method by residents to mitigate traffic and noise impacts.

It is anticipated that the CPI and other construction costs will continue to rise and will continue to impact the Wastewater program's ten year capital plan.

Section XI. Pressures not included in 2010 Budget:

Although the impacts of the PSAB related to TCAA were discussed previously, the final impacts on the Wastewater Program have yet to be determined.

Challenges and Emerging Trends:

- Continuing high rates of growth through new development and intensification
- Aging infrastructure and increasing need for rehabilitation
- Increasing accountability of overall environmental stewardship
- Aging workforce and shortage of skilled/licensed workers
- Increasing insurance rates resulting in higher capital costs
- Greater project complexity and scope
- Weather patterns particularly the increase in the number and intensity of storms

Appendices:

Appendix I	2010 Current Pressures
Appendix II	2010 Capital Overview
Appendix III	2010 New Capital Detail
Appendix IV	Ten Year Capital Plan
Appendix V	Output/Outcome Measures

**APPENDIX I
WASTEWATER
2010 CURRENT PRESSURES (\$'000)**

	Wastewater		
	Total Expenditures	Total Revenue	Net Cost
2009 Approved Cost of Service	101,728	735	100,993
Annualizations			
N/A	-	-	-
<i>Subtotal</i>	-	-	-
Cost of Living Increase/Inflation - Section IV			
1 Chemical Costs	1,594	-	1,594
2 Staffing	87	-	87
3 Insurance Premiums	232	-	232
4 Other	74	-	74
<i>Subtotal</i>	1,987	-	1,987
Efficiencies - Section V			
1 Hydro and Natural Gas	(1,864)	-	(1,864)
2 Laboratory Services	(143)	-	(143)
<i>Subtotal</i>	(2,007)	-	(2,007)
2010 Base Changes	(20)	-	(20)
Growth - Section VII			
1 Staffing	130	-	130
<i>Subtotal</i>	130	-	130
Service Demand - Section VII			
N/A	-	-	-
<i>Subtotal</i>	-	-	-
Reserve Contributions - Section VII			
1 Reserve Contributions - York *	408	-	408
<i>Subtotal</i>	408	-	408
Other - Section VII			
N/A	-	-	-
<i>Subtotal</i>	-	-	-
2010 New Pressures	538	-	538
Total 2010 Pressures	518	-	518
2010 Recommended Cost of Service	102,246	735	101,511

* The increase in York Reserve Contributions will be fully recovered through billings to York Region.

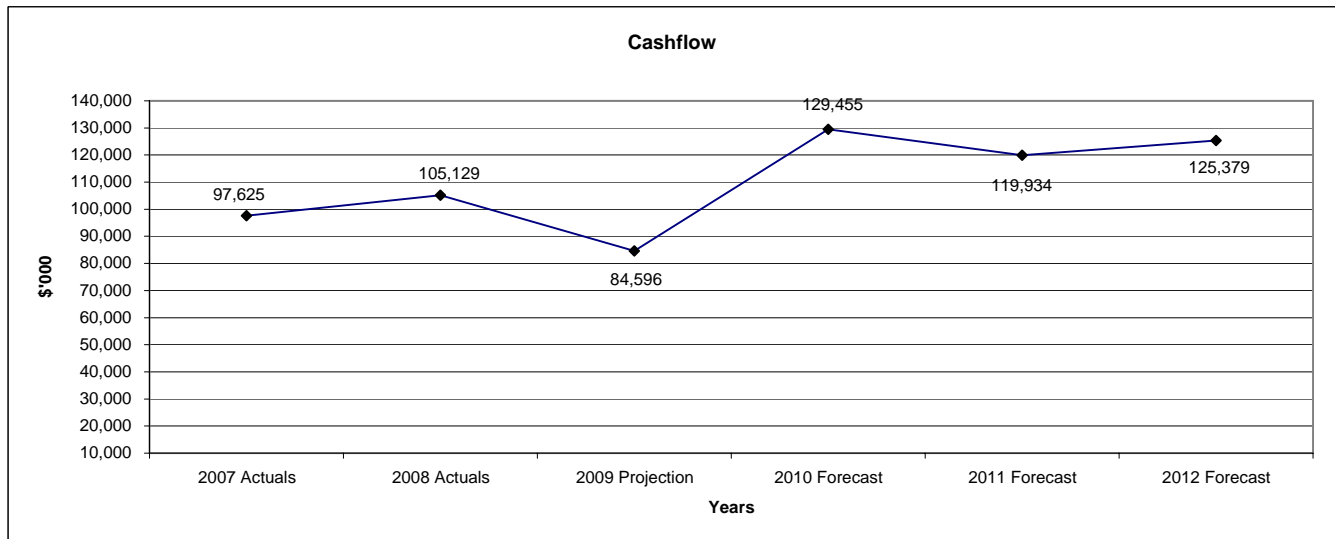
**APPENDIX II
WASTEWATER
2010 CAPITAL OVERVIEW (\$'000)**

	Capital Budget	
	Number of Projects	Total Budget
Carry Forward: January 1, 2009	202	301,922
Additions:		
2009 Capital Plan		
New 2009 Projects	28	22,261
New funding to Existing Projects		200,227
In year Approvals(i.e. Council Approval, Redeployments)	5	20,867
Subtractions:		
Budget Reductions		(350)
Closed Projects	(24)	(8,481)
Expenditures to September 30, 2009		(65,420)
Subtractions: Projections from October 1 - December 31, 2009		
Closed Projects	(30)	(6,429)
Expenditures		19,176
Balance: December 31, 2009	181	483,773
Additions:		
New Proposed 2010 Capital Plan		
New 2010 Projects	25	23,091
New funding to Existing projects		72,238
Balance: January 1, 2010 with approval	206	579,102
Subtractions:		
Projected 2010 Cashflow		129,455
Projected Balance: December 31, 2010		708,557

Comments on Changes in Funding:

Wastewater program received \$13.4 million dollars from the Federal and Provincial Governments as a result of Infrastructure Stimulus Funding.

Cashflow chart showed below is only used as an example. Please created a new chart with real cashflow data.



**APPENDIX III
WASTEWATER
2010 NEW CAPITAL DETAIL**

2010 Financing Sources and Funding Status (\$'000)

2010 Funding Status:

Approved or Pending

(A/P)



Project #

Project Name

Ward

2010			
<u>Total</u> <u>Expense</u>	<u>Funding</u>		
	<u>External</u>	<u>Internal</u>	<u>DCA</u>

General

A 10-2000	UNALLOCATED FUNDS	PEEL	2,000	0	2,000	0
A 10-2001	PRE-ENGINEERING AND DESIGN	PEEL	75	0	75	0
A 10-2005	RESTORATION WORKS	PEEL	50	0	50	0
A 10-2011	LABORATORY AND ENFORCEMENT MANAGEMENT SYSTEM UPGRADES	PEEL	1,855	0	1,855	0

Wastewater Treatment Plants and Pumping Stations

A 06-2935	PORT CREDIT SPS	M1	18,549	0	6,492	12,057
A 06-2960	RELOCATION OF MCVEAN SEPTAGE HAULING STATION	B10	1,000	0	1,000	0
A 08-2915	CLARKSON WASTEWATER TREATMENT PLANT - EXPANSION	M2,M2	43,369	0	0	43,369
A 09-2825	ALTON VILLAGE WASTEWATER SERVICING	C1	1,700	0	1,700	0
A 09-2920	INGLEWOOD WASTEWATER TREATMENT FACILITY UPGRADES.	C1	240	0	240	0
A 10-2905	SEWAGE PUMPING STATIONS - MAJOR MAINTENANCE	PEEL	200	0	200	0

**APPENDIX III
WASTEWATER
2010 NEW CAPITAL DETAIL**

2010 Financing Sources and Funding Status (\$'000)

2010 Funding Status:

Approved or Pending

(A/P)

↓ <u>Project #</u>	<u>Project Name</u>	<u>Ward</u>	2010			
			<u>Total Expense</u>	<u>Funding</u>		<u>DCA</u>
			<u>External</u>	<u>Internal</u>		
A 10-2906	WASTEWATER TREATMENT PLANTS - MAJOR MAINTENANCE	PEEL	500	0	500	0
A 10-2907	WASTEWATER TREATMENT PLANTS - EQUIPMENT REPLACEMENT	PEEL	700	0	700	0
A 10-2925	LAKEVIEW WASTEWATER TREATMENT PLANT - BIOSOLIDS DEWATERING		1,000	157	0	843
Primary Collection System - Development						
A 05-2230	WEST TRUNK SEWER EXTENSION		1,500	0	0	1,500
A 10-2220	FLETCHER'S CREEK TRUNK SEWER TWINNING	B5	3,489	0	1,570	1,919
Local Trunk Collection System - Development						
A 08-2185	COUNTRYSIDE DRIVE - FROM MOUNTAINASH ROAD TO TORBRAM ROAD	B10	914	0	0	914
A 09-2125	FUTURE STREET - BRAM EAST	B10	544	0	0	544
A 10-2101	MCVEAN DRIVE	B10	1,351	0	0	1,351
A 10-2102	FUTURE STREET - SPRINGDALE NEIGHBOURHOOD 703		501	0	0	501
A 10-2104	STEELES AVENUE - BRAM WEST	B6	928	0	0	928

**APPENDIX III
WASTEWATER
2010 NEW CAPITAL DETAIL**

2010 Financing Sources and Funding Status (\$'000)

2010 Funding Status:
Approved or Pending
(A/P)

↓ <i>Project #</i>	<i>Project Name</i>	<i>Ward</i>	<i>2010</i>			
			<i>Total Expense</i>	<i>External Funding</i>	<i>Internal Funding</i>	<i>DCA</i>
A 10-2105	WANLESS DRIVE - MOUNT PLEASANT		228	0	0	228
Primary Collection System - Improvements and Upgrades						
A 09-2410	CALEDON GWTF UPGRADES.	Peel	836	0	836	0
A 09-2415	CALEDON EAST/AIRPORT ROAD MANHOLE REHABILITATION.	Peel	196	0	196	0
A 10-2420	TRUNK SEWER REHABILITATION	Peel	250	0	250	0
A 10-2425	HARBORN ROAD TRUNK SEWER - DIVERSION	M7	3,000	0	1,500	1,500
Local Collection System - Improvements and Upgrades						
A 08-2306	LORNEWOOD CREEK SANITARY SEWER		2,090	0	2,090	0
A 10-2300	FUTURE IMPROVEMENTS AND UPGRADES	PEEL,M1	2,169	0	2,169	0
A 10-2380	SEWER RELINING IN PEEL	PEEL	1,200	0	1,200	0
A 10-2390	INFLOW AND INFILTRATION REMEDIATION	PEEL	350	0	350	0
Local Improvement						
A 07-2701	CHURCHVILLE / CREDITVIEW LOCAL IMPROVEMENT	B6	500	0	500	0
Operating Capital						

**APPENDIX III
WASTEWATER
2010 NEW CAPITAL DETAIL**

2010 Financing Sources and Funding Status (\$'000)

2010 Funding Status:
Approved or Pending

↓ <i>Project #</i>	<i>Project Name</i>	<i>Ward</i>	<i>2010</i>			
			<i>Total Expense</i>	<i>Funding</i>		<i>DCA</i>
			<i>External</i>	<i>Internal</i>		
A 08-2013	SERVICE PLANNING INFORMATION MANAGEMENT		800	0	800	0
A 10-2305	SANITARY SEWER SPOT REPAIRS	PEEL	300	0	300	0
A 10-2500	WASTEWATER PROGRAM PLANNING	PEEL	350	0	175	175
A 10-2505	DEVELOPMENT CHARGES REVIEW	Peel	200	0	0	200
A 10-2510	INFLOW, INFILTRATION AND FLOW MONITORING STUDIES	PEEL	425	0	425	0
A 10-2515	TRUNK SEWER INSPECTION AND CONDITION ASSESSMENT	Peel	1,000	0	1,000	0
A 10-2520	WASTEWATER SERVICING MASTER PLAN UPDATE	Peel	250	0	0	250
A 10-2535	SANITARY SEWER INSPECTION	PEEL	720	0	720	0
<i>Totals for Budget Year: 2010</i>			95,329	157	28,893	66,279

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<u>Sub Type</u>	<u>Description</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<u>Gross</u>
General								
Miscellaneous works related to the overall regional wastewater system.								
10-2000	UNALLOCATED FUNDS FUNDING FOR UNFORESEEN AND EMERGENCY WORKS.	2,000	2,000	2,000	2,000	2,000	10,000	20,000
10-2001	PRE-ENGINEERING AND DESIGN FUNDING FOR PRE-ENGINEERING AND DESIGN OF WORKS SCHEDULED FOR CONSTRUCTION THE FOLLOWING YEAR.	75	75	75	75	75	375	750
10-2005	RESTORATION WORKS INVESTIGATIONS AND REMEDIATION WORKS RELATED TO POST-CONTRACT ISSUES.	50	50	50	50	50	250	500
10-2011	LABORATORY AND ENFORCEMENT MANAGEMENT SYSTEM UPGRADES UPGRADES TO THE LABORATORY AND ENFORCEMENT MANAGEMENT SYSTEM.	1,855	0	0	0	0	0	1,855
10 Year Totals For: General		3,980	2,125	2,125	2,125	2,125	10,625	23,105

Wastewater Treatment Plants and Pumping Stations

Growth and non-growth related works to upgrade, expand or add to new wastewater treatment facilities.

06-2935	PORT CREDIT SPS CONSTRUCTION OF A NEW SEWAGE PUMPING STATION IN THE VICINITY OF LAKESHORE ROAD AND COOKSVILLE CREEK.	18,549	0	0	0	0	0	18,549
06-2960	RELOCATION OF MCVEAN SEPTAGE HAULING STATION ADDITIONAL FUNDS.	1,000	0	0	0	0	0	1,000
08-2915	CLARKSON WASTEWATER TREATMENT PLANT - EXPANSION EXPANSION TO INCREASE CAPACITY TO 350ML/D. DESIGN IN 2008.	43,369	0	0	0	0	0	43,369

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<i>Sub Type</i>	<i>Description</i>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<u>Gross</u>
09-2825	ALTON VILLAGE WASTEWATER SERVICING WASTEWATER SERVICING FOR ALTON VILLAGE.	1,700	18,526	0	0	0	0	20,226
09-2920	INGLEWOOD WASTEWATER TREATMENT FACILITY UPGRADES. IMPROVEMENTS AND UPGRADES TO THE INGLEWOOD WASTEWATER TREATMENT FACILITY. ADDITIONAL FUNDING	240	0	0	0	0	0	240
10-2905	SEWAGE PUMPING STATIONS - MAJOR MAINTENANCE PLANNED MAJOR MAINTENANCE AND EQUIPMENT REPLACEMENT AT THE LAKE-BASED SEWAGE PUMPING STATIONS.	200	200	200	200	200	1,000	2,000
10-2906	WASTEWATER TREATMENT PLANTS - MAJOR MAINTENANCE WASTEWATER TREATMENT PLANTS - MAJOR MAINTENANCE	500	500	500	500	500	2,500	5,000
10-2907	WASTEWATER TREATMENT PLANTS - EQUIPMENT REPLACEMENT PLANNED EQUIPMENT REPLACEMENT AT THE LAKE-BASED WASTEWATER TREATMENT PLANTS.	700	700	700	700	700	3,500	7,000
10-2925	LAKEVIEW WASTEWATER TREATMENT PLANT - BIOSOLIDS DEWATERING EXPANSION TO INCREASE THE CAPACITY OF THE BIOSOLIDS DEWATERING PROCESS. APPROXIMATELY 16% FUNDED BY YORK REGION. DESIGN IN 2010.	1,000	15,520	23,862	0	0	0	40,382
11-2901	LAKEVIEW WASTEWATER TREATMENT PLANT - NITRIFICATION IMPROVEMENTS NITRIFICATION IMPROVEMENTS TO MEET THE MINISTRY OF ENVIRONMENT'S EFFLUENT CRITERIA FOR UN-IONIZED AMMONIA.	0	29,672	0	22,990	0	0	52,662

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<i>Sub Type</i>	<i>Description</i>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<u>Gross</u>
11-2902	CLARKSON WASTEWATER TREATMENT PLANT - NITRIFICATION IMPROVEMENTS NITRIFICATION IMPROVEMENTS TO MEET THE MINISTRY OF ENVIRONMENT'S EFFLUENT CRITERIA FOR UN-IONIZED AMMONIA.	0	23,697	0	0	0	0	23,697
15-2900	FUTURE WASTEWATER FACILITIES PROJECTS	0	0	0	0	0	146,447	146,447
10 Year Totals For: Treatment Facilities		67,258	88,815	25,262	24,390	1,400	153,447	360,572

Primary Collection System - Development

Installations of trunk sewers to sustain Peel's growth.

05-2230	WEST TRUNK SEWER EXTENSION FROM STEELES AVENUE WEST TO QUEEN STREET WEST AND MISSISSAUGA ROAD (HUTTONVILLE). ADDITIONAL FUNDS.	1,500	0	0	0	0	0	1,500
07-2250	MISSISSAUGA ROAD TRUNK SEWER FROM BOVAIRD DRIVE TO APPROXIMATELY 1900 METRES NORTHERLY.	0	0	12,556	0	0	0	12,556
08-2205	WEST TRUNK SEWER TWINNING FROM HIGHWAY 401 TO THE QUEENSWAY.	0	96,553	86,103	0	0	0	182,656
08-2235	BOLTON/BRAMPTON TRUNK SEWER TWINNING FROM COLERAINE DRIVE TO CASTLEMORE ROAD.	0	14,119	0	0	0	0	14,119
10-2220	FLETCHER'S CREEK TRUNK SEWER TWINNING FROM QUEEN STREET WEST TO STEELES AVENUE WEST. DESIGN IN 2010.	3,489	0	7,584	15,675	0	0	26,748

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<u>Sub Type</u>	<u>Description</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<u>Gross</u>
11-2210	ETOBICOKE CREEK TRUNK SEWER TWINNING UNDERNEATH RUNWAY 23 AT LESTER B. PEARSON INTERNATIONAL AIRPORT. APPROXIMATELY 32.5% FUNDED BY YORK REGION. DESIGN IN 2011.	0	501	3,335	0	0	0	3,836
12-2210	ALBION-VAUGHAN ROAD TRUNK SEWER FROM MAYFIELD ROAD TO APPROXIMATELY 2300 METRES NORTHERLY. DESIGN IN 2012.	0	0	549	0	3,660	0	4,209
13-2202	ETOCICOKE CREEK TRUNK SEWER TWINNING (FROM AIRPORT ROAD TO CNR) 1350MM SANITARY TRUNK SEWER FROM AIRPORT ROAD NORTH EASTERLY TO CNR TO 1300 METRES. DESIGN IN 2013.	0	0	0	648	3,833	0	4,481
13-2203	ETOBICOKE CREEK TRUNK SEWER TWINNING (FROM CNR TO GOREWAY DRIVE) 1350MM SANITARY TRUNK SEWER TWINNING FROM CNR TRACKS NORTH OF 407 HIGHWAY NORTHERLY TO GOREWAY DRIVE TO 2800 METRES. DESIGN IN 2013.	0	0	0	1,544	8,146	0	9,690
13-2204	BOVAIRD DRIVE TRUNK SEWER - NORTH WEST BRAMPTON 900MM SANITARY TRUNK SEWER FROM MISSISSAUGA ROAD WESTERLY TO HERITAGE ROAD. DESIGN IN 2013.	0	0	0	1,293	1,463	0	2,756
14-2201	EAST TO WEST DIVERSION - EXTENSION CONVERT EXISTING TRUNK SEWER FROM WEST TO EAST IN TO FORCEMAIN FROM EAST TO WEST AND EXTEND THE FORCEMAIN TO CREDITVALLEY TRUNK SEWER. PRE-EA AND DESIGN ESTIMATE.	0	0	0	0	3,659	21,946	25,605

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<i>Sub Type</i>	<i>Description</i>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<u>Gross</u>
14-2202	EAST TO WEST TRUNK SEWER - CONVERSION TO FORCEMAIN CONVERSION OF WEST TO EAST TRUNK SEWER TO EAST TO WEST FORCEMAIN.	0	0	0	0	1,155	5,672	6,827
15-2200	FUTURE PRIMARY COLLECTION SYSTEM PROJECTS ALLOCATIONS FOR FUTURE PROJECTS.	0	0	0	0	0	8,297	8,297
10 Year Totals For: WWP-Development		4,989	111,173	110,127	19,160	21,916	35,915	303,280

Local Trunk Collection System - Development

Installations of subtrunk sewers to sustain Peel's growth.

08-2185	COUNTRYSIDE DRIVE - FROM MOUNTAINASH ROAD TO TORBRAM ROAD FROM MOUNTAINASH ROAD WESTERLY TO TORBRAM ROAD. IN CONJUNCTION WITH THE CITY OF BRAMPTON'S WIDENING OF COUNTRYSIDE DRIVE.	914	0	0	0	0	0	914
09-2125	FUTURE STREET - BRAM EAST 450MM/ 375MM SANITARY SEWERS FROM THE GORE ROAD EASTERLY	544	0	0	0	0	0	544
10-2101	MCVEAN DRIVE FROM COUNTRYSIDE DRIVE TO MAYFIELD ROAD.	1,351	0	0	0	0	0	1,351
10-2102	FUTURE STREET - SPRINGDALE NEIGHBOURHOOD 703 FROM HIGHWAY 410 TO DIXIE ROAD.	501	0	0	0	0	0	501
10-2104	STEELES AVENUE - BRAM WEST FROM WEST OF LEVI CREEK WESTERLY TO HEREFORD STREET.	928	0	0	0	0	0	928
10-2105	WANLESS DRIVE - MOUNT PLEASANT FROM EDENBROOK HILL DRIVE TO 735 METRES EASTERLY.	228	0	0	0	0	0	228

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<i><u>Sub Type</u></i>	<i><u>Description</u></i>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<i><u>Gross</u></i>
11-2101	FUTURE STREET - COUNTRYSIDE VILLAGE 375MM SANITARY SEWER FROM COUNTRYSIDE DRIVE TO 710 METRES NORTHERLY.	0	549	0	0	0	0	549
11-2103	TORBRAM ROAD 525MM SANITARY SEWER FROM COUNTRYSIDE DRIVE NORTHERLY.	0	532	0	0	0	0	532
11-2135	FUTURE STREET (BRAM EAST) FROM CLARKWAY DRIVE TO 610 METRES EASTERLY.	0	473	0	0	0	0	473
12-2101	FUTURE STREET - COUNTRYSIDE VILLAGE - WEST OF DIXIE ROAD 450MM/ 375MM SANITARY SEWER FROM COUNTRYSIDE DRIVE NORTH WESTERLY ACCROSS 410 HIGHWAY EXTENSION TO HEARTLAKE ROAD ALONG FUTURE STREETS IN COUNTRYSIDE VILLAGE DEVELOPMENT.	0	0	698	988	0	0	1,686
12-2102	CREDITVIEW ROAD (NORTHWEST BRAMPTON) FROM WANLESS DRIVE TO MAYFIELD ROAD.	0	0	843	665	0	0	1,508
12-2103	FUTURE STREETS - MAYFIELD WEST COMMUNITY FUTURE STREETS, LOCATED NORTH WEST OF MAYFIELD ROAD AND DIXIE ROAD WITHIN MAYFIELD WEST COMMUNITY.	0	0	629	716	0	0	1,345
12-2104	FUTURE STREET (NORTHWEST BRAMPTON) FROM CREDITVIEW ROAD TO MISSISSAUGA ROAD.	0	0	1,950	0	0	0	1,950

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<u>Sub Type</u>	<u>Description</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<u>Gross</u>
12-2105	FUTURE STREET (NORTHWEST BRAMPTON) FROM NORTH OF WANLESS DRIVE TO 630 METRES NORTHERLY, LOCATED BETWEEN CREDITVIEW ROAD AND CHINGUACOUSY ROAD.	0	0	538	534	0	0	1,072
12-2106	FUTURE BRISDALE DRIVE (NORTHWEST BRAMPTON) FROM WANLESS DRIVE TO 652 METRES NORTHERLY.	0	0	575	0	0	0	575
12-2107	FUTURE EDENBROOK HILL ROAD (NORTHWEST BRAMPTON) FROM WANLESS DRIVE AT EDENBROOK HILL ROAD TO 675 METRES NORTHERLY.	0	0	594	448	0	0	1,042
12-2108	WANLESS DRIVE FROM CREDITVIEW ROAD TO APPROXIMATELY 350 METRES EASTERLY.	0	0	313	0	0	0	313
12-2109	FUTURE STREET (NORTHWEST BRAMPTON) FROM FUTURE BRISDALE DRIVE WESTERLY ALONG FUTURE STREET LOCATED NORTH OF WANLESS DRIVE.	0	0	355	0	0	0	355
13-2101	FUTURE STREET (NORTHWEST BRAMPTON) FROM THE FUTURE SANDALWOOD PARKWAY TO 1160 METRES NORTHERLY.	0	0	0	1,158	0	0	1,158
13-2102	FUTURE STREET - NORTH WEST BRAMPTON 450 SANITARY SEWER, ,555 METERS FROM MAYFIELD ROAD SOUTHERLY ALONG FUTURE BRISDALE DRIVE, LOCATED WEST OF CHINGUACOUSY ROAD.	0	0	0	716	0	0	716

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<u>Sub Type</u>	<u>Description</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<u>Gross</u>
13-2103	FUTURE STREET - COUNTRYSIDE VILLAGE - WEST OF BRAMALEA ROAD 375MM SANITARY SEWER FROM MAYFIELD ROAD SOUTHERLY, 475 METRES ALONG FUTURE STREET.	0	0	0	368	0	0	368
13-2104	FUTURE STREET - COUNTRYSIDE VILLAGE - WEST OF BRAMALEA ROAD 375MM SANITARY SEWER FROM MAYFIELD ROAD 710 METRES SOUTHERLY ALONG FUTURE STREET	0	0	0	526	0	0	526
13-2105	FUTURE STREET - COUNTRYSIDE VILLAGE - WEST OF BRAMALEA ROAD 375MM SANITARY SEWER FROM BRAMALEA ROAD NORTH WESTERLY, 600 METRES ALONG FUTURE STREET	0	0	0	651	0	0	651
14-2101	CLARKWAY DRIVE FROM COUNTRYSIDE DRIVE NORTHERLY.	0	0	0	0	731	0	731
14-2102	FUTURE STREET - BRAM WEST FROM HERITAGE ROAD SOUTH EASTERLY ALONG FUTURE STEET IN NEW DEVELOPMENT.	0	0	0	0	896	0	896
14-2103	FUTURE STREET / AIRPORT ROAD FROM AIRPORT ROAD NORTH WESTERLY TO MAYFIELD ROAD.	0	0	0	0	1,147	0	1,147
14-2105	FUTURE STREET BRAM WEST - LEVI CREEK SOUTH FROM STEELES AVENUE NORTH WESTERLY TO HERITAGE ROAD, FROM WEST OF LEVI CREEK BETWEEN LEVI CREEK FINGER LANDS.	0	0	0	0	1,301	0	1,301
15-2100	FUTURE LOCAL COLLECTION SYSTEM PROJECTS ALLOCATIONS FOR FUTURE PROJECTS.	0	0	0	0	0	14,514	14,514

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<i>Sub Type</i>	<i>Description</i>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<u>Gross</u>
<i>10 Year Totals For:</i>	WWL-Development	4,466	1,554	6,495	6,770	4,075	14,514	37,874
Primary Collection System - Improvements and Upgrades								
Replacements, repairs and upgrades related to primary collection system.								
09-2410	CALEDON GWTF UPGRADES. UPGRADES TO THE FACILITY. ADDITIONAL FUNDING	836	0	0	0	0	0	836
09-2415	CALEDON EAST/AIRPORT ROAD MANHOLE REHABILITATION. REHABILITATION OF 23 MANHOLE, RE-LINING AND/OR OTHER WORKS. ADDITIONAL FUNDING.	196	0	0	0	0	0	196
10-2420	TRUNK SEWER REHABILITATION VARIOUS REHABILITATION AND REPAIR WORKS TO THE PRIMARY TRUNK SEWERS.	250	250	250	250	250	1,250	2,500
10-2425	HARBORN ROAD TRUNK SEWER - DIVERSION DIVERTING FLOWS AWAY FROM HARBORN ROAD TRUNK SEWER.	3,000	0	0	0	0	0	3,000
<i>10 Year Totals For:</i>	WWP-Imp. & Upgrades	4,282	250	250	250	250	1,250	6,532

Local Collection System - Improvements and Upgrades

Replacements, repairs and upgrades related to local collection system.

08-2306	LORNEWOOD CREEK SANITARY SEWER SEWER IMPROVEMENTS ALONG LORNEWOOD CREEK, SOUTH OF INDIAN ROAD. DESIGN IN 2008.	2,090	0	0	0	0	0	2,090
10-2300	FUTURE IMPROVEMENTS AND UPGRADES ALLOCATIONS FOR FUTURE SANITARY SEWER REPAIRS, REPLACEMENTS AND RELINING.	2,169	2,150	2,150	2,150	2,150	10,750	21,519
10-2380	SEWER RELINING IN PEEL SEWER RELINING ON VARIOUS STREETS IN THE REGION OF PEEL.	1,200	1,200	1,200	1,200	1,200	6,000	12,000

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TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<u>Sub Type</u>	<u>Description</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<u>Gross</u>
10-2390	INFLOW AND INFILTRATION REMEDIAION DISCONNECTION OF DOWNSPOUTS AND VARIOUS SEWER REPAIRS IN FLOOD-PRONE AREAS.	350	350	350	350	350	1,750	3,500

10 YearTotals For:	WWL-Imp. & Upgrades	5,809	3,700	3,700	3,700	3,700	18,500	39,109
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Wastewater Studies

Wastewater studies, Environmental Assessment and Planning.

12-2505	ETOBICOKE CREEK TRUNK SEWER TWINNING - CLASS EA FROM THE CNR TO QUEEN STREET EAST AND GOREWAY DRIVE.	0	0	171	0	0	0	171
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12-2510	ETOBICOKE CREEK TRUNK SEWER TWINNING - CLASS EA FROM AIRPORT ROAD TO THE CNR.	0	0	80	0	0	0	80
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13-2501	EAST-TO-WEST DIVERSION PUMPING STATION AND FORCEMAIN - CLASS EA STUDIES REQUIRED TO CONVERT EXISTING TRUNK SEWER FROM WEST TO EAST INTO FORCEMAIN FROM EAST TRUNK SEWER SYSTEM TO WEST TRUNK SEWER SYSTEM, EXTENDING THE FORCEMAIN TO CREDITVALLEY TRUNK SEWER AND CONSTRUCTION OF NEW PUMPING STATION.	0	0	0	723	0	0	723
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15-2500	FUTURE WASTEWATER STUDIES PROJECTS ALLOCATIONS FOR FUTURE PROJECTS.	0	0	0	0	0	1,605	1,605
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10 YearTotals For:	Wastewater Studies	0	0	251	723	0	1,605	2,579
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Local Improvement

Funding for local improvements.

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<i><u>Sub Type</u></i>	<i><u>Description</u></i>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<i><u>Gross</u></i>
07-2701	CHURCHVILLE / CREDITVIEW LOCAL IMPROVEMENT CHURCHVILLE / CREDITVIEW LOCAL IMPROVEMENT. ADDITIONAL FUNDING.	500	0	0	0	0	0	500
<i>10 Year Totals For:</i>	Local Improvement	500	0	0	0	0	0	500

Operating Capital

08-2013	SERVICE PLANNING INFORMATION MANAGEMENT INTEGRATION OF VARIOUS APPLICATIONS FOR IMPROVED PROJECT MANAGEMENT, CONTRACT MANAGEMENT, PERFORMANCE MANAGEMENT AND SERVICE PLANNING.	800	0	0	0	0	0	800
10-2305	SANITARY SEWER SPOT REPAIRS VARIOUS SCHEDULED AND EMERGENCY SANITARY SEWER SPOT REPAIRS.	300	300	300	300	300	1,500	3,000
10-2500	WASTEWATER PROGRAM PLANNING WASTEWATER PROGRAM PLANNING, STUDIES, AND LOCAL IMPROVEMENT INVESTIGATIONS.	350	350	350	350	350	1,750	3,500
10-2505	DEVELOPMENT CHARGES REVIEW STUDIES FOR THE PREPARATION OF THE REGION OF PEEL DEVELOPMENT CHARGES BY-LAW.	200	0	0	0	0	200	400
10-2510	INFLOW, INFILTRATION AND FLOW MONITORING STUDIES STUDIES TO ELIMINATE INFLOW AND INFILTRATION AND MONITORING WASTEWATER FLOWS AT CRITICAL SECTIONS WITHIN THE REGION'S WASTEWATER SYSTEM.	425	425	425	425	425	2,125	4,250

**APPENDIX IV
WASTEWATER
TEN YEAR CAPITAL PLAN**

Ten Year Combined Capital Program (\$'000)

<u>Sub Type</u>	<u>Description</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Yrs 6-10</u>	<u>Gross</u>
10-2515	TRUNK SEWER INSPECTION AND CONDITION ASSESSMENT INSPECTION AND CONDITION ASSESSMENT OF THE PRIMARY TRUNK SEWERS.	1,000	500	500	0	0	0	2,000
10-2520	WASTEWATER SERVICING MASTER PLAN UPDATE REVIEW OF THE REGIONAL WASTEWATER SERVICING STRATEGY.	250	0	0	0	0	250	500
10-2535	SANITARY SEWER INSPECTION CLOSED-CIRCUIT TELEVISION (CCTV) INSPECTION OF SANITARY SEWERS.	720	720	720	720	720	3,600	7,200
10 Year Totals For: Operating Capital		4,045	2,295	2,295	1,795	1,795	9,425	21,650
Totals for 10 Year Capital Plan:		95,329	209,912	150,505	58,913	35,261	245,281	795,201

**APPENDIX V
WASTEWATER
OUTPUT AND OUTCOME MEASURES**

Outputs/Outcomes

Output/Outcome Measures	2009 Target	2009 Projection	2010 Target	Commentary
The number of inspections that are done per year by inspector.	7,000 inspections per year (revised target)	7,000 inspections to be completed by year end	7,000 inspections per year	Inspections target number will not increase for 2010.
Sewer Flushing per Performance Std Based Target	1,055,152 m per year	800,000m to be completed by year end. Equipment breakdown issues have impacted actuals to date.	1,013,500 m per year	Target for 2010 is 1,013,500 m . This target is lower than 2009 because the targets in previous years were increased to make up flushing shortfalls (Due to equipment malfunctions, weather etc.)
Number of kilometres of sewer TV inspected per year	10 per cent of system/year total or 320,000m	Target will be met by year end 320,000m	326,400 m per year	Target will increase by growth of approximately 2 per cent for system total for 2010.
Number of Capital Projects started	80 per cent of projects within the year	86 per cent expected by the end of 2009	80 per cent of projects within the year	Target will remain the same in 2010.
Number of Odour complaints per 1000 people served for WWTP	< 1 per cent	< 1 per cent (1 complaint in total - was recorded in the first quarter.)	< 1 per cent	Target will remain the same in 2010.