

**2010 WATER PROGRAM  
Budget Overview**

Budget Summary \$'000s	2009 Budget	2009 Projection	2010 Proposed	09 vs 10 Variance	2011 Forecast	2012 Forecast
<b>Current Budget - Total Expenditures</b>	\$135,455	\$127,655	<b>\$136,863</b>	\$1,407	\$140,521	\$144,256
<b>Current Budget - Total Revenue</b>	\$1,637	\$1,337	<b>\$1,074</b>	\$563	\$1,106	\$1,139
<b>Net Cost before Billings</b>	\$133,818	\$126,318	<b>\$135,788</b>	\$1,970	\$139,415	\$143,117
<b>Direct Billings</b>	\$133,818	\$121,818	<b>\$135,788</b>	\$1,979	\$139,415	\$143,117
<b>Current Budget – Net Cost (after billings)</b>	\$0	\$4,500	<b>\$0</b>	0	\$0	\$0
<b>FTE*</b>	176.0	176.0	<b>176.0</b>	0	180.0	185.0
<b>New Capital</b>			<b>\$184,379</b>		\$350,218	\$484,606

\* 2009 consolidated water budget document shows 250.75 FTEs, which includes 74.75 FTEs from Revenue Management Group. Due to the re-org, Revenue Management was moved to Operations Support Division during 2009, leaving water program with 176 FTEs

**2010 BUDGET HIGHLIGHTS**

**Current Budget**

The proposed 2010 Net Budget (before billings) is \$135.8 million, which represents an increase of \$2.0 million over the 2009 Net Budget. This amount of \$2.0 million includes an increase of \$0.9 million in the York Reserve contribution, which is fully recovered through York Billings. Taking this into account, the net increase is \$1.1million over 2009 Net Budget. The main drivers contributing to \$1.1 million include:

- A \$2 million increase in the new Ontario Clean Water Agency (OCWA) contract
- A \$1.6 million increase due to the reduction in fee and charges, and the economic and inflationary increase associated with salaries, wages, and goods and services
- The increase is offset by a hydro cost reduction in the amount of \$2.5 million due to the drop in market price and estimated treated volume

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

**Staffing**

There is no new Full Time Equivalent (FTEs) request within Water Program for 2010.

**Capital**

The 2010 Capital Budget for Water totals \$184.4 million in new projects and additional funding for existing projects funded as follows: Development Charges 41.4 per cent (\$76.4 million), Internal Reserves 29.1 per cent (\$53.6 million) and External Recoveries (Including York) 29.5 per cent (\$54.4 million)

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**Section I. Existing Services and Service Levels:**

The Water Program through leadership and collaboration sustainably delivers high quality drinking water, and the related support services, in an efficient and reliable manner such that the needs and expectations of Peel's customers are met or exceeded. The existing water system consists of two lake based water treatment plants that supply nine reservoirs/booster stations and five groundwater-based supply and treatment systems. The system contains approximately 4,088 kilometres of watermain, 24,403 fire hydrants, and 42,291 valves. The total length of the watermain has been increased by 13% compared to 2005. The two lake based water treatment plants are being expanded and new transmission lines are being constructed in order to meet the water demand from York Region. The system is designed and managed in a manner so that all municipal water is reliably and efficiently treated, transmitted, and distributed to over 289,130 (as of September 30, 2009) retail and wholesale customer accounts. The Program is delivered through the following key activities:

- ***Program Planning and Compliance***
  - Capital and Operating Budget Preparation and Development Charge Updates
  - Environmental Assessment (EA) and Feasibility Studies
  - Compliance with various legislations
  - Drinking Water Quality Management System
  - Hydrogeological reviews/assistance, Water Modeling
  - Local Improvement
  - Master Plans Development
- ***Water Treatment, Capital***
  - Management, contract administration, and major maintenance for the Lake-based Water Treatment and Transmission Systems
  - Preliminary Designs for Capital Water Projects
  - Detailed Design and Construction Procurement
- ***Transmission and Distribution Capital***
  - Preliminary Designs for Capital Water Projects
  - Detailed Design and Construction Procurement
  - Contract Administration
  - Design, Construction and Inspection of all new, replacement, and upgraded infrastructure
  - Construction Supervision of Linear Water Capital Projects
- ***Distribution Operations Mississauga and Brampton***
  - Operation and maintenance of Water Distribution Systems including sampling and field analysis of water, process adjustments to treatment and demand related conditions
  - Hydrant inspection and maintenance
  - Sampling and field analysis of water
  - Flushing for water quality maintenance
  - Water service turn-on/off
  - Linear infrastructure maintenance and repair
  - Water Distribution System valving

- ***Water Treatment and Caledon Distribution***
  - Ontario Clean Water Agency (OCWA) Contract administration (South Peel)
  - Operation and maintenance of the Groundwater-based Supply and Treatment Systems including sampling and field analysis of water, process adjustments to treatment and demand related conditions
  
- ***SCADA and Instrumentation***
  - Supervisory Control and Data (SCADA) acquisition refers to the system that collects data from various sensors at the plants and pumping stations
  - A computer system for gathering and analyzing real time data, such as the monitoring of activities in Peel's water system.
  - Maintenance, enhancement, replacement and optimization of systems and integration with other information/data collection systems
  
- ***Required Internal Support Services: Provided by Operations Support Program***
  - **Engineering Technical Services**
    - Surveying and Draft Reference Plans for Capital Construction
    - Construction Supervision of Linear Water Development Projects
    - Computer Automated Drafting (CAD) requirements

### ***Key Initiatives in 2009 include:***

#### ***Managed Existing and New Infrastructure to Sustain and Accommodate Growth***

- Completed EA for Hanlan Feedermain and Mississauga City Centre Feedermain
- Received Drinking Water Quality Management System (DWQMS) accreditation on September 23, 2009 which successfully completes first phase of the project
- Commenced Phase II of the DWQMS project which entails the implementation of Phase I and includes communicating with senior and key staff, Council update, training of key staff, enacting the self audit program and developing the financial report
- Commenced EA for water supply for Caledon East, Alton/Caledon Village and Cheltenham Communities to provide water for approved growth
- Commenced Source Water Protection initiatives with conservation authorities and area municipalities
- Developed call for Engineering proposals for new transmission infrastructure in Peel - Alloa Feedermain, Reservoir and PS; Zone 6 Feedermain and Reservoir; Bolton South Feedermain and Elevated Tank
- Successful application for almost \$90 million of infrastructure stimulus funding in both liner distribution replacement and pump process improvements and rehabilitation
- Substantially completed construction of a 9.1 millilitres elevated tank in Caledon, one of the largest single-pedestal elevated tanks in Canada
- Began construction for Lakeview phase 2 expansion (5 of 11 contracts underway by end of 2009)
- Completed linear contracts for relocation of the Bexhill sewage pump station
- Completed tender calls and commenced construction for \$60 million West Brampton Feedermain
- Completed tender calls and commenced construction for \$90 million Beckett Sproule Feedermain

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- Completed tender calls and commenced construction of over \$100 million of process pumping station projects in Region's primary transmission network - Hanlan, Beckett Sproule, Herridge, Streetsville, Meadowvale
- Completed reservoir rehabilitation projects at four major reservoirs in 2009
- Continuation of condition assessment and rehabilitation of the South Peel Transmission System - Streetsville Feedermain completed in 2009
- Support of system wide Energy Management System
- Tendering and award of all key construction contracts for Lorne Park water treatment plant Expansion
- Successful operation of the Lakeview water treatment plant Phase 1 Expansion for the first year
- Commenced construction of water transmission infrastructure to support reduction of flow from Lorne Park water treatment plant
- Construction of over 16 km of 2,100 mm and 6 km of 1,500 mm diameter major transmission watermains through Peel
- Replacement of over 60 km of local watermains through the Region's asset management program
- Implemented enhanced lead testing program in drinking water to improve water quality and public health
- Implemented an enhanced hydrant inspection program to detect leakage and reduce water loss
- Completed New Water Emergency Response Plan (WERP)
- Updated asset inventory and condition assessment of all south Peel water and wastewater facilities
- All four Region of Peel water/wastewater plants have been transferred from desktop workstations environment to Server Based Architecture and applications
- North Peel Caledon Water and Regional Wastewater stations have been transferred from desktop workstations to Server Based Applications
- Energy Management System Servers have been installed, applications loaded, communications established and currently in pre-deployment testing phase
- North Peel Caledon Water sites with marginal communications have been outfitted with local backup data collection ensuring drinking water quality validation
- Process Automation Instrumentation and Design Standards (PAIDS 3.0) released Region of Peel
- Successfully filled two Automation Project Manager vacancies
- Completed OCWA renegotiations contract (SCADA related portions added along with roles/responsibilities defined)
- Created STIC (SCADA Technology Information Committee) partnership with corporate ITS
- Completed Thin Client assessment and pilot project, ready for general Thin Client computing deployment early 2010
- Completed DWQMS standard operation procedure (SOP) for Operations/QMS and SCADA for automatic controls and safety shutdown Change Management of Ministry of the Environment (MOE) related operational constraints.
- Began construction of final contract for the Herridge feedermain

### *Promoted Environmental Protection and Stewardship through the Water Program*

- The Water Smart Peel program continues to expand by developing and implementing a number of water efficiency measures resulting in quantifiable water savings, totalling 6.6 mega litres from 2004 to September 2008

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- In 2009, the Peel Children’s Water Festival (PCWF) was held at Heart Lake Conservation Area. Since 1996, PCWF has provided an excellent education experience to more than 70,000 Peel Region elementary school students through the use of 50 interactive activity centres
- Numerous tours of the Lorne Park Water Treatment Plant were conducted for elementary school students, college students, community groups, and staff
- Commenced the Energy Optimization of the South Peel Water Transmission System aimed at reducing total energy consumption and cost while maintaining service levels
- A comprehensive energy audit was completed for the South Peel Water system. A pumping optimization study currently in the process will begin to reduce energy consumption and costs in the near future.

### *Provided Innovative, Leading Edge Services*

- The Lakeview Water Treatment Plant completed significant technological upgrades including ozonation and biological activated carbon filtration, membrane ultra filtration, as well as the provision for future ultraviolet disinfection installation
- A Water Distribution System Transient Analysis project is well underway to identify and control the risk of excessive velocities and ‘water hammer’, which can impact the integrity of the water distribution system
- From October 2005, successfully supplied 78,479 mega litres of treated water to York Region with billings of approximately \$18.6 million (as of September 2009)

### *Improving Information Management*

The Water Program in a joint effort with the Wastewater Program completed the Strategic Technology and Automation Master Plan (STAMP). This project is an important element in the Water Program’s strategy to build a solid foundation of information and automation systems to support its business of delivering water services to the customers of Peel Region. STAMP, which is a five year plan, began in 2008 with initiatives in Corporate Asset Management, Energy Optimization and Water Distribution, SCADA Terminal Services and updating Process Automation and Instrumentation Design Standards. (PAIDS) The plan is well aligned with Corporate and Departmental Strategies.

The Water program planning integrated the Linear Asset Prioritization System (LAPS) with various information management systems such as Hansen, water model, Geographic Information System (GIS) for improved decision making.

The Water program planning in conjunction with call centre and Asset Information Management System (AIMS) group developed a “Water Quality Log” to help with manual logging of the water quality enquiries. Since the development of this log; it has been utilized to log water quality calls in Hansen to better gather the information for later reporting, mapping and event investigating. The new log is very strategically set up to force entry of essential information that may be of great use if events are trended or investigations carried out. Its check box and drop menu features are easy to use and are very time effective. It is no longer required for a full description of the problem to be written out as the categorized Log offers the most common water quality problems in a check box format.

### *Significant Research*

The Region of Peel continues to chair the Lake Ontario Collaborative for Source Water Protection MOE Technical Studies Phase 2. The mission of the Collaborative is to ensure the long-term, proactive and strategic protection of lake Ontario lake-based drinking water supplies.

### **Levels of Service**

The Region carries out numerous activities on the water system using internal resources, external contractors, and partnerships with other area municipalities.

Statutes and associated regulations that dictate Service Level:

- *Municipal Act*
- *Safe Drinking Water Act*
- *Ontario Water Resources Act;*
- *Sustainable Water and Sewage Systems Act;*
- *Environmental Protection Act*
- *Environmental Assessment Act*
- *Clean Water Act*

The Region of Peel's two lake based water treatment plants and transmission system operate under separate Class IV MOE Licences. The South Peel Treatment and Transmission Systems are operated under contract by the OCWA. The service agreement between the Region and OCWA calls for more stringent water quality objectives than what is mandated by MOE.

The South Peel Water Distribution System holds a Class II Licence, while the six groundwater-based distribution/supply and treatment systems have various levels ranging from Class I to III. These water systems are operated by Peel Region staff, and consistently deliver drinking water to Peel's customers that exceed MOE requirements.

Operations staff is highly trained and are licensed in accordance with the Ontario Regulation 128/04 under the *Safe Drinking Water Act*. In 2009, 100 per cent of Peel water operations staff held required MOE licences, a testament to the success of the water operator training and certification program. There was no requirement to restrict the use of water consumption due to excessive demand in the system.

Water operations staff is available 24 hours a day, seven days a week and 365 days a year in order to ensure that service levels are met. Peel's objective is to respond to emergencies within one hour of receiving notification.

**Section II. Resources to Deliver 2009 Services:**

***2009 Budget:***

<b>Current \$'000</b>	<b>2008 Actual</b>	<b>2009 Budget</b>	<b>2009 Projection</b>	<b>2009 Variance</b>
Total Expenditures	\$120,454	\$135,455	\$127,655	\$7,800
Fees and Charges	\$1,486	\$1,637	\$1,337	(\$300)
Utility Billings	\$112,511	\$133,818	\$121,818	(\$12,000)
Deficit/(Surplus)	\$6,457	\$0	\$4,500	\$4,500
FTE	161.00	176.00	176.00	0.00

As shown in the above table, the 2009 current total expenditure budget was approved at \$135.5 million. The budget can be divided into four main areas as follows:

- Contribution to reserves \$56.2 million
- Good and Services (Including Hydro charges collectively procured by Corporation Energy Group, Materials and Supplies, Services and Rents, Equipment and Furnishings) \$40.9 million
- Salary and Wages \$16.1 million
- Net internal charges (Including conservation authority funding and corporate overhead allocation etc.) \$22.3 million

A budget restructure incurred in 2009 on the major cost components such as Conservation Authority funding and the overhead cost associated with Meter and Billing service under Water Program. In order to align with the true picture of operating cost between Water and Wastewater as well as increase the fiscal accountability, the costs were split between Water and Wastewater at a reasonable base. In addition, a reserve transfer between Water and Wastewater was completed in order to ease the operating pressure on Water program given the infrastructure spending need under Water Program and the status of current Water Reserve.

***2009 Projection:***

With a combination of economic downturn and wet weather, a loss of \$10.0 million on the Peel direct water billings is estimated to incur by year end. The economic downturn is seen to have a negative impact on the water consumption, which is illustrated by the fact that total billed consumption in Industrial, Commercial and Institutional (ICI) sector for the first half of 2009 was the lowest during the past nine years. In addition, the wet weather aggregates the consumption drop, which is primarily impacting on the residential sector. Furthermore, the supply to York is not up to the agreement level due to the low demand from York Region and a broken connection pipe (Incurred in September 2009) within York Region. We expect to see a total shortfall of \$12.0 million in both Peel and York direct billings by year end.

It is self-explanatory that the operating expenditure will be decreased accordingly due to the drop in the consumption, especially for such variable costs as Hydro and Chemicals. However, most of the costs under Water program are fixed, therefore, the under spent amount is not expected to make up all the

shortfalls on the revenue side. A total under spent amount of \$7.5 million on the expenditure side is forecasted for year end.

Overall, Water Program is anticipated to be in a deficit position of \$4.5 million at the end of 2009. The same amount of contribution from either water rate stabilization reserve or other internal reserves would be required if the shortfall at year end is realized.

### **Section III. Performance Measurement/Benchmarking:**

Water program staff recognizes benchmarking as a useful management tool that utilizes financial and performance data to assist in the decision-making process. The Water program has actively participated in the Ontario Municipal CAO's Benchmarking Initiative (OMBI) since 1997, and currently has several members on the Water/Wastewater Expert Panel. In 2001, the Province initiated the Municipal Performance Measurement Program (MPMP) as part of the annual Financial Information Report (FIR), which includes Water Program Measures. Further participation in the National Water/Wastewater Benchmarking Initiative has increased Peel's profile as an industry leader for Water.

The operating unit cost for treatment under Water program was skewed in the previous years by the Conservation Authority cost, which distorted the comparison with other municipalities. Agreed by Ministry of Municipal Affairs and Housing staff involved in overseeing the FIR, retroactive adjustments were applied to 2008 and two years backward by removing the impact of funding Conservation Authorities. This will make more transparent the Water Services costs.

2008 values indicate that the Region of Peel's Water Program performed very well with regards to cost management and service deliverables to the community when compared to the other OMBI municipalities. Distribution cost per kilometer of water main is the lowest in the first quartile. The operating cost for treatment per Mega liter is among the lowest. The overall operating cost (including distribution and treatment) ranks second out of 13 municipalities. Further details can be found at: <http://www.peelregion.ca/finance/ombi/>

### **Section IV. 2010 Base Pressures:**

In order to continue supporting Peel's Water program at the 2009 approved service level, there are increases to the base costs, which are identified in Appendix I. Highlights are as follows.

#### ***Cost of Living Increase/Inflation:***

The Water program has a very tight control over the program spending while maintaining a high service level. An increase of less than \$1 million in Staffing and Goods and Services is seen in the 2010 proposed budget, mostly driven by the inflation and the cost of living.

#### ***OCWA Contract Increase:***

As per the new ten-year OCWA contract, an increase of \$2 million is seen in the 2010 Water budget. The key contributing factors include service level increase and cost increase in the operation and maintenance activities provided by OCWA. In addition, the chemical cost, which is subject to market condition, also plays an important role in the increase.

**Fees and Charges:**

Other than the elimination of Water service turn on/off fee mentioned in the Section VIII as part of the 2010 new initiatives, Water Program anticipates \$30 thousand less in the engineering and inspection fee and other miscellaneous revenues based on the historical trend.

**Section V. Cost Mitigation through Efficiencies and Recoveries:**

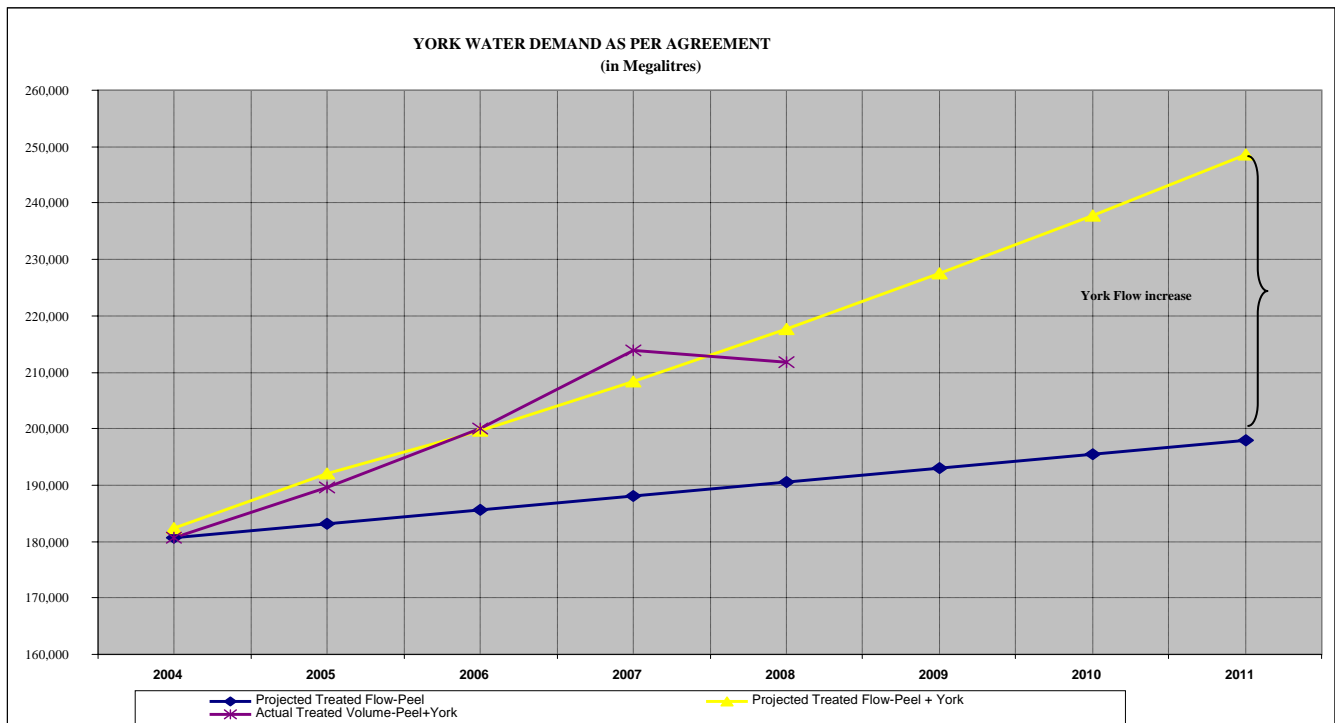
**Efficiencies:**

As one of the key cost components under the Water Program, hydro is currently procured by Corporate Energy Services. A \$2.5 million budget reduction was expected due to the change in the market price and the estimated low treated volume.

Going forward, the Water Program implement an Energy Optimization system of the South Peel Transmission System and will continue with Distribution System Transient Analysis that will result in future opportunities to reduce operating costs. Results of a current South Peel energy audit may provide opportunities to implement energy reducing recommendations in 2010.

**Recoveries:**

Peel Region currently supplies water and processes wastewater to York Region. The synergy by fully utilizing current Peel facilities is not only shown on the capital side, but also on the operating side. The agreement indicates that the water demand from York Region will be increased year-over-year. Maximizing the capacity usage definitely helps ease the burden on the Peel water rate given that most of the costs within the treatment plant are fixed. The follow chart highlights the impact from the anticipation of increasing demand from York as per York-Peel agreement.



As indicated in the Appendix I, the Program will recover the full amount of the increase in York Reserve contribution (The capital component of York billings) from York Region as per the agreement. For the operating component, the Region see \$1.45 million increase in York billings due to the increase in volume provided to 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 Peel Region.

### Section VI. Challenges and Emerging Trends:

1. Increasing retirements, and a shortage of licensed workers have resulted in challenges for all programs. The Water Program specifically has been faced with increasing MOE certification requirements.
2. Increasing pressure to complete the Infrastructure Stimulus Funded (ISF) projects to meet the strict deadlines.
3. Continued expansion of the water system – treatment facilities, transmission, and local distribution to accommodate growth and improved infrastructure risk mitigation.
4. Commodity price such as Hydro has been volatile in the past few years. The Water Program in collaboration with the Wastewater Program and the Corporate Energy Management Division continue to implement ways to mitigate increasing costs through a number of energy conservation and efficiency related initiatives.
5. Due to the increasing complexity of the water treatment processes, chemical demands and contracted services for treatment are fluctuating have increased. Based on the new 10 year long term OCWA contract, Water Program is exposed to more market risks as the Program will pay the chemical cost based on the market price and usage.
6. New legislation including:
  - Municipal Drinking Water License Program (MDWLP) and DWQMS – The MOE requires that owners of municipal water systems obtain an owner’s license for the operation of the waterworks along with the implementation of a drinking water quality management standard by January 1, 2009.
  - *The Clean Water Act*, 2006 came into force on July 3, 2007. The act requires the development of source protection plans by multi-stakeholder source protection committees to address drinking water threats to all ground water and surface water municipal drinking water systems. Peel Region is Chair of the MOE Technical Studies Grant Program and will lead the Lake Ontario Collaborative into 2008 through Phase 2 of the studies which will provide the foundation for source protection plans.
  - *Places to Grow Act* – Enacted in 2006 by the Ministry of Public Infrastructure Renewal recommends areas that should be intensified, along with those that should remain rural or in their natural state.
  - Bill 175 – *Sustainable Water and Sewer Systems Act* – This act will require that sustainable full cost recovery is realized for all water and sewer systems in Ontario
  - Public Sector Accounting Board (PSAB) has proposed Tangible Capital Assets, Section 3150 reporting Federal, Provincial, territorial and municipal governments will be required to prepare financial statements in accordance with accrual accounting principles and will be required to be compliant by January 1, 2009.

7. The Region's overall infrastructure is aging, requiring more investment in preventive and planned maintenance. There has been an increase in major maintenance and equipment replacements at the water treatment and transmission facilities, as well as the linear infrastructure. In response, a comprehensive asset management program has been implemented and continues to develop further.

### **Section VII. 2010 Program Pressures-Current:**

#### ***Staffing:***

There are no new FTE requests in the 2010 proposed budget.

#### ***User Fees:***

There are some changes in user fees. Details of Water User Fees are provided in the Corporate Executive Summary document in summary VII.

#### ***Other Pressures***

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

### **Section VIII. 2010 New initiative-Current**

#### ***Fee Structure changes in Turn on/off:***

As part of the Common Purpose and with the intent of improving customer service, Water Program staff looked at service charges to identify the ones causing the greatest complaints by residents. The findings indicate that residents show a great concern about service charges for turn on and off's as they believed that it should be part of the water rates. It is proposed to eliminate the charges in 2010 budget, which results in a loss of revenue of \$133 thousand. Eliminating this additional charge is seen as very positive by consumers.

#### ***Implementation of Drinking water quality management system:***

DWQMS is mandated by the MOE. The program commenced in 2008 and during 2009/2010 Water Program will be implementing the audit, regulatory application and internal education program components of the project. \$75 thousand is built into 2010 budget to cover the cost incurred.

### **Section IX. 2010 Program Pressures – Capital:**

#### ***Ongoing Capital Projects***

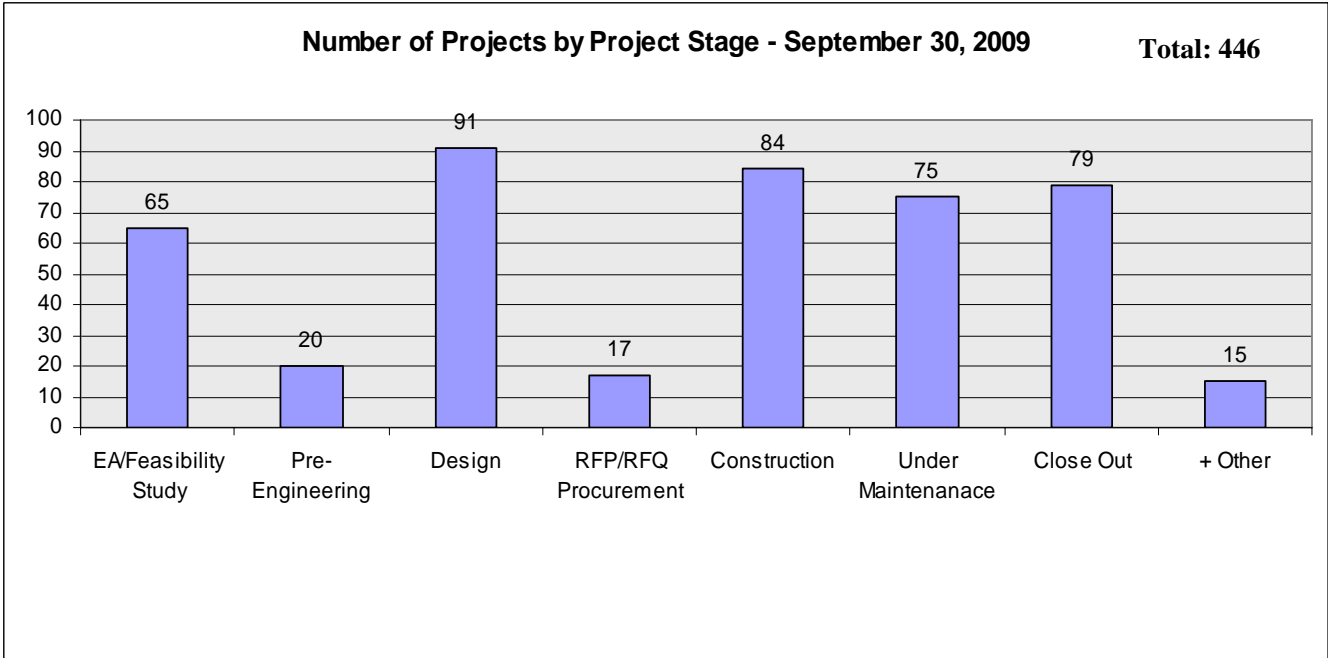
At the beginning of 2009, there were 367 active Water projects, including the new projects in 2009 approved capital plan and in-year approvals. From January 1, 2009 to September 30, 2009, 23 capital water projects were completed and closed. Of the remaining current active projects in the system, 79 are in the close out process.

As of Sept 30, 2009, there were 446 active water projects with a total net budget value of \$1.3 billion. Out of that amount, \$635.7 million or 48.9 per cent has been spent, leaving approximately \$691.9 million worth of work yet to be completed. In 2009 the Water program experienced the heaviest annual spending in history with Management's intent to deliver the service to the community effectively and

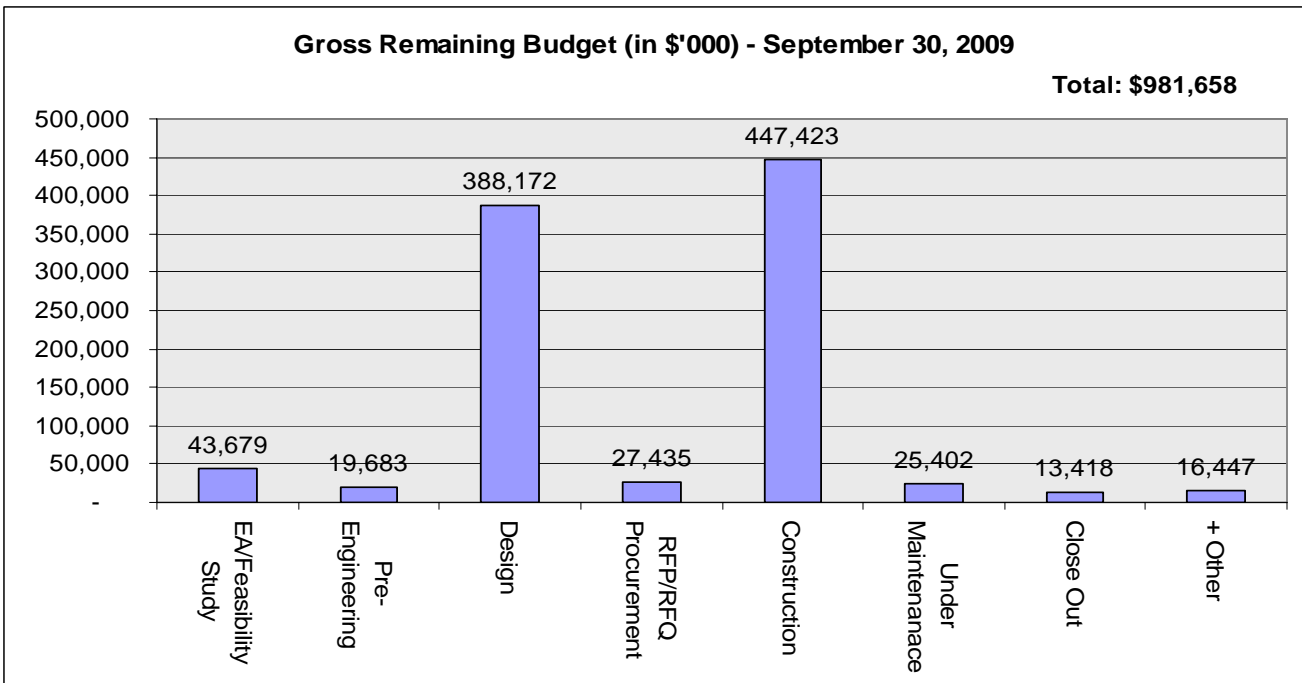
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efficiently. In addition, Management is putting great effort working on the Infrastructure Stimulus Funded Projects in order to meet the required timeline.

Capital projects progress through several stages during the project lifecycle. The following two graphs provide the status of the active water projects, and the breakdown of the gross remaining budgets allocated by project status as of September 30, 2009. The graphs indicate that significant numbers of the projects and dollar amount are under design and construction stage. Also note that 75 of the total projects are under maintenance. The standard maintenance period for projects is 12 months, however for projects with increased complexity or risk, the period is extended to 24 months. Water projects have seen substantial increases in both risk and complexity in recent years due to changes in legislation, growth and technology, and as such average maintenance periods have increased.



*Other Stages - Real Estate/Cancelled/On Hold etc.*



*Other Stages - Real Estate/Cancelled/On Hold etc.*

### *Accomplishments in 2009*

In 2009, it is anticipated that a gross amount of \$280.0 million will be spent in the Water capital budget. Appendix II shows that as of September 30, 2009, \$200.0 million had been spent, doubling the annual spending over 2008.

### *What Drives the Water Capital Program?*

The capital program is driven by many factors, such as growth, the rate of growth, age, condition of the current infrastructure and rising costs. Many of these increases are common to the other Public Works programs.

Meeting York water demand from Peel system continues to be a large portion of Water Capital Program. Over 20 York-Peel shared projects for a capital budget of \$1.1 billion are currently being undertaken, which represents 60 per cent of total water budget for all the active projects. A significant portion of the York-Peel capital projects are related to the expansion of treatment plants and upgrade/construction of transmission lines. York and Peel cost shares are determined by the external parties and agreed upon by both parties. All the shared projects are scheduled to be completed by 2014.

Given the expected return to global economic growth, world demand for commodities is likely to rebound in upcoming months. As a result, the sharp price declines recorded in some commodity markets during the first half of 2009 is expected to subside in the short – medium term.

Rigorous research and analysis was carried out on many components of the infrastructure planning process including:

- Updated hydraulic modeling
- Updating unit costs to account for impacts of cost increases and labour shortages
- More careful identification of property requirements and costs
- More detailed alignment of water pipes based on EA, detailed design, draft plans
- Coordination of the Water program projects with Transportation, Wastewater and local municipalities projects
- Ensuring service levels, increasing public expectations, and design guidelines are met
- Consideration of new/emerging construction methodologies

### *Major Water Impacts*

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

- Detailed cost estimates based on EA and detailed design that were completed recently for many projects
- Additional watermains to enhance supply and improve system security in the event of a major feedermain failure
- Replacement of aging infrastructure
- A greater number of projects being estimated on the basis of tunnelling rather than open-cut construction
- A significant increase in overall project and unit costs
- Increasing pressures from environmental protection agencies to conduct more complex assessment and monitoring of infrastructure impact
- Deferring projects due to delay in EAs or slowing growth

***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 the total capital available for the Water Capital Program to spend in 2010.

<b>Carry - Forward from 2009 \$'000</b>	<b>2010 New Capital \$'000</b>	<b>2010 # of Planned and New Projects</b>	<b>Total Capital Available \$'000</b>	<b>2011 – 2019 Forecast \$'000</b>	<b>2011 – 2019 # of New Projects</b>
<b>\$888,241</b>	<b>\$184,379</b>	<b>51</b>	<b>\$1,072,620</b>	<b>\$1,328,093</b>	<b>40</b>

In addition to the carry forward of approved projects from 2009 in the amount of \$888.2 million, new capital of \$184.4 million is being requested in 2010 for Water Capital Projects. This includes increases in costs to existing projects and the costs of new projects in 2010. Details of Water 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 (EA, detailed design, property acquisitions, utility relocation), commitments need to be identified a number of years in advance of the project actually going to construction. As well, while \$1,072.6 million in capital may be available to be spent in 2010, the cash flow will occur over the next few years.

***Major changes to the 2010 Capital Budget Program***

The 2010 Capital Budget program for Water is \$184.4 million, a \$53.6 million reduction from the 2010 Capital Budget projection anticipated in 2009. The drivers behind the 2010 Capital Budget changes are summarized as follows:

- Infrastructure Stimulus Fund projects totaling \$74.2 million removed from the budget and advanced into 2009 plan
- Deferred construction of the Tullamore Reservoir and Pumping Station to 2011 (\$39.6 million reduction)
- Deferred construction of the North Bolton Elevated Tank and Transmission Main to 2011 (\$18.3 million reduction)
- Inflation (4.5 per cent) accounting for \$10.7 million
- Beckett Sproule Transmission Main – Additional \$36.1 million based on detailed design
- Hanlan Transmission Main – Budget increase of \$13.4 million for detailed design based on the findings of the Class EA
- Standby Power at the Meadowvale North Pumping Station - \$5.0 million
- Contingency for Watermain Design and Construction - \$6.0 million
- Increases in the budget of major maintenance and equipment replacement for the Treatment Plants and Transmission Facilities totaling \$3.3 million

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

The 2010 Capital Budget & Forecast to 2019 for the Water Program is \$1.51 billion, a \$378.3 million increase over the 2010 Capital Budget projection anticipated in 2009. The drivers behind the 2010 Capital Budget increases are summarized as follows:

- Inflation (4.5 per cent) accounts for \$51.0 million
- Beckett Sproule Transmission Main – additional \$36.1 million based on detailed design
- Hanlan Transmission Main – Budget increase of \$126.2 million based on the findings of the Class EA
- Mississauga City Centre Watermain – Budget increase of \$13.3 million based on the findings of the Class EA
- Standby Power at the Meadowvale North Pumping Station - \$5.0 million
- Contingency for Watermain Design and Construction - \$6.0 million
- Increases in the budget of major maintenance and equipment replacement for the Treatment Plants and Transmission Facilities totaling \$13.5 million
- Distribution system repair and replacement increased budget of \$30.0 million
- Tullamore Reservoir and Pumping Station – \$12.2 million budget increase based on pre-design estimate
- Additional funds of \$5.0 million for the Streetsville Pumping Station expansion
- Lakeview Water Treatment Plant (WTP) Expansion – \$13.0 million budget increase due to scope of work changes
- Lorne Park WTP Expansion – additional funds of \$8.0 million due to scope of work changes
- \$6.3 million for new distribution feeder mains in Peel
- Budget increase of \$20.5 million for projects related to the North Bolton Elevated Tank and Transmission Main
- Budget increase of \$5.2 million to extend the Transient Protection Program to 2019
- Budget increase of \$4.8 million for replacement of granular activated carbon at the WTPs
- New project to cover the design of watermain replacement in Peel - \$36.0 million

### **Section X. Future Outlook:**

#### **2011 and 2012 Current Budget:**

The negotiation with OCWA for the new ten year long-term contract has been finalized and approved by Regional Council. Based on the cost proposal by the both parties, the OCWA operating cost will be increased by \$1.1 million in 2011 and \$3.5 million in 2012 respectively compared to 2010 budget. The impact on 2012 mainly results from additional operating cost from the new facilities (treatment plant expansion etc.) if they will be rolled out as planned.

The reduction on the 2010 hydro budget is subject to the market condition and estimated treated volume. If the hydro unit price is soaring in 2011 and 2012, additional amount would need to build into the budget. On the other hand, the Program might be able to see some tangible results from the energy optimization initiatives which will be implemented within the coming years.

The increase in water reserve at the approximate three per cent is expected to continue in the coming few years in order to maintain the good-state of repair for the existing infrastructure.

Further, inflationary pressures will continue to impact the operation and maintenance budgets primarily for chemicals and fuel. The 2010 Water program budget reflects these factors.

The estimated net budgets (Before billings) for water program are estimated to be:

2011: \$139.4 million

2012: \$143.1 million

### **2011-2019 Capital Plan:**

The current long term forecast is presented in Appendix IV. The estimated total value of the capital plan from 2011 to 2019 is \$1.3 billion. The majority of the post 2010 projects are related to the water treatment facilities, water transmission system and water distribution system to provide for new growth as well as replacement of aging infrastructure.

### **Section XI. Pressures not included in 2010 Budget:**

Given Provincial Legislation on energy conservation and the lack of sustainable funding provided by senior level governments, enhanced funding for energy conservation initiatives would be of value as the Water Program is a very large consumer of electricity and natural gas.

Further legislation that may impact the water program beyond 2010 includes:

- *The Clean Water Act, 2006*
- *Bill 175 – Sustainable Water and Sewer Systems Act;*
- *PSAB 3150 - Tangible Capital Assets reporting*
- *Source Water Protection Act.*

### **APPENDICES:**

<b>Appendix I</b>	<b>2010 Current Pressures</b>
<b>Appendix II</b>	<b>2010 Capital Overview</b>
<b>Appendix III</b>	<b>2010 New Capital Detail</b>
<b>Appendix IV</b>	<b>Ten Year Capital Plan</b>
<b>Appendix V</b>	<b>Outcomes and Outputs</b>

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**APPENDIX I**

**WATER**

**2010 CURRENT PRESSURES (\$'000)**

	<b>Total Expenditures</b>	<b>Total Revenue</b>	<b>Net Cost</b>
<b>2009 Approved Cost of Service</b>	<b>135,455</b>	<b>(1,637)</b>	<b>133,818</b>
<b>Annualization - N/A</b>			
<b>Cost of Living Increase/Inflation - Section IV</b>			
1 Staffing	386	-	386
2 New 10 year OWCA contract	2,000	-	2,000
3 Other expenditure (Internal charges, Goods and Services)	584	-	584
Subtotal	2,970	-	2,970
<b>Efficiency - Section V</b>			
1 Hydro Savings	(2,517)	-	(2,517)
<b>Other Fees and charges</b>		430	430
<b>2010 Base Changes</b>	<b>453</b>	<b>430</b>	<b>883</b>
<b>Regulatory requirement/Growth/SL enhancement - Section VII</b>			
1 Implementation of Drinking water management system	75	-	75
<b>Other-Section VII</b>			
1 Fee Structure Change-Turn on/off fee		133	133
<b>2010 New Pressures</b>	<b>75</b>	<b>133</b>	<b>208</b>
<b>Total 2010 Pressures</b>	<b>528</b>	<b>563</b>	<b>1,091</b>
<b>Increase in Reserve contribution (York Reserve)*</b>	<b>879</b>	<b>-</b>	<b>879</b>
<b>2010 Recommended Cost of Service</b>	<b>136,862</b>	<b>(1,074)</b>	<b>135,788</b>

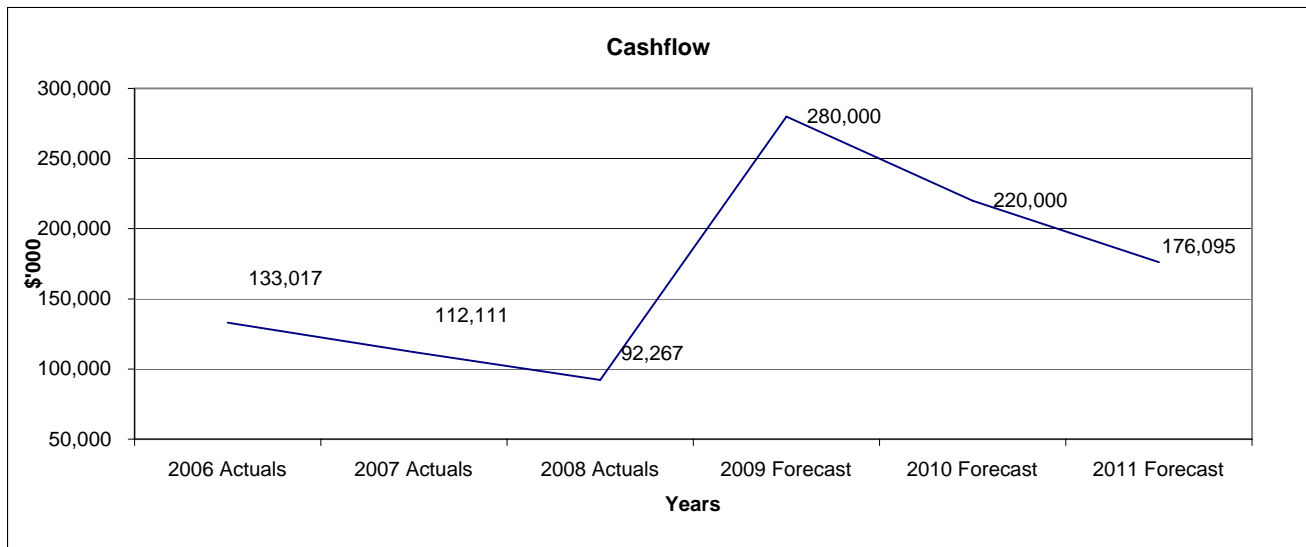
\* The increase in York Reserve will be fully recovered from York billings

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

	<b>Capital Budget</b>	
	Number of Projects	Total Budget
<b>Carry Forward: January 1, 2009</b>	<b>391</b>	<b>739,546</b>
<b>Additions:</b>		
2009 Capital Plan		
New 2009 Projects	53	95,277
New funding to Existing Projects		250,242
In year Approvals (i.e. Council Approved, Redeployments)	25	100,760
<b>Subtractions:</b>		
Budget Reductions		(250)
Closed Projects	(23)	(3,770)
Expenditures to Sep 30, 2009		(200,153)
<b>Subtractions: Projections from August 1 - December 31, 2009</b>		
Closed Projects	(79)	(13,418)
Expenditures		(80,000)
<b>Balance: December 31, 2009</b>	<b>367</b>	<b>888,241</b>
<b>Additions:</b>		
New Proposed 2010 Capital Plan		
New 2010 Projects	51	102,703
New funding to Existing projects		81,676
<b>Balance: January 1, 2010 with approval</b>	<b>418</b>	<b>1,072,620</b>
Projected 2010 Cashflow		(220,000)
<b>Projected Balance: December 31, 2010</b>		<b>852,620</b>

**Comments on Changes in Funding:**

*In 2009, Water Program is getting \$58 million stimulus funding from Provincial and Federal to finance the total capital budget of \$87million. Out of \$58 million, \$53million will help Water primary reserve R0241.*



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

2010 Funding Status:

Approved or Pending

(A/P)

Project #Project NameWard

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

<b>General</b>
----------------

A 08-1015	REGULATORY COMPLIANCE INFORMATION MANAGEMENT	PEEL	350	0	350	0
A 10-1000	UNALLOCATED FUNDS	PEEL	1,500	0	1,500	0
A 10-1001	PRE-ENGINEERING AND DESIGN	PEEL	500	0	500	0

<b>Water Treatment Plants, Reservoirs and Pumping Stations</b>
--

A 02-1945	LAKEVIEW WATER TREATMENT PLANT EXPANSION (PHASE 1)	M1	1,000	431	0	569
A 07-1960	AIRPORT ROAD RESERVOIR AND PUMPING STATION EXPANSION	B10	20,574	15,636	0	4,938
A 08-1910	SOUTH PEEL ENERGY EFFICIENCY IMPROVEMENTS	PEEL	1,000	0	1,000	0
A 08-1985	WATER SYSTEM OPTIMIZATION PROGRAM	PEEL	143	0	143	0
A 10-1901	PROPERTY ACQUISITION FOR SOUTH PEEL WATER FACILITIES	C4,C5	1,936	0	0	1,936
A 10-1903	TRANSMISSION FACILITIES - MAJOR MAINTENANCE	PEEL	3,500	0	3,500	0
A 10-1904	TRANSMISSION FACILITIES - EQUIPMENT REPLACEMENT	PEEL	3,500	0	3,500	0

## 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>External Funding</u>	<u>Internal Funding</u>	<u>DCA</u>
A 10-1906	TREATMENT FACILITIES - MAJOR MAINTENANCE	M1,M2	2,300	0	2,300	0
A 10-1907	TREATMENT FACILITIES - EQUIPMENT REPLACEMENT	M1,M2	600	0	600	0
A 10-1908	TREATMENT PROCESS OPTIMIZATION PROJECTS	M1,M2	300	0	300	0
A 10-1911	TRANSIENT PROTECTION FOR THE SOUTH PEEL WATER SYSTEM	PEEL	750	0	750	0
A 10-1916	VALVE REPLACEMENT PROGRAM	PEEL	250	0	250	0
A 10-1917	ENERGY MANAGEMENT SYSTEM FLOW METER REPLACEMENTS	PEEL	2,453	0	2,453	0
A 10-1936	REPLACEMENT OF GRANULAR ACTIVATED CARBON FILTER MEDIA	M1,M2	1,700	0	1,700	0
A 10-1960	ALLOA RESERVOIR AND PUMPING STATION	C2	4,300	0	0	4,300
A 10-1965	RESERVOIR OPTIMIZATION STRATEGY AND IMPLEMENTATION PROGRAM	PEEL	2,750	0	2,750	0
A 10-1966	ZONE 6 RESERVOIR	C2	2,926	0	0	2,926
A 10-1983	MEADOWVALE NORTH PUMPING STATION - STANDBY POWER	M9	5,000	0	5,000	0

Transmission System - Development

## 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>	<u>2010</u>			
			<u>Total Expense</u>	<u>Funding External</u>	<u>Funding Internal</u>	<u>DCA</u>
A 04-1205	BECKETT SPROULE TRANSMISSION MAIN	M5,B3	36,100	25,414	0	10,686
A 08-1230	NORTH BOLTON TRANSMISSION MAIN (PHASE 1)	C5	2,400	0	0	2,400
A 10-1205	HANLAN TRANSMISSION MAIN	M1,M1,M3,M5, M3	31,039	12,881	0	18,158
A 10-1210	ZONE 6 TRANSMISSION MAIN	C2	3,513	0	0	3,513
A 10-1215	ALLOA TRANSMISSION MAIN (PHASE 2)	B6,C2	3,478	0	0	3,478
<b>Feedermain Distribution System - Development</b>						
A 04-1180	400MM FEEDERMAIN - HIGHWAY 50	B10	200	0	0	200
A 05-1119	600MM FEEDERMAIN - MISSISSAUGA ROAD	B6	250	0	0	250
A 05-1182	400MM FEEDERMAIN - CONFEDERATION PARKWAY	M4	403	0	0	403
A 07-1124	400MM FEEDERMAIN - MISSISSAUGA ROAD	B6	75	0	0	75
A 08-1150	600MM FEEDERMAIN - DIXIE ROAD	B9	375	0	0	375
A 08-1156	400MM FEEDERMAIN - FUTURE STREET (BRAM EAST)	B10	527	0	0	527

## 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 08-1175	600MM FEEDERMAIN - MISSISSAUGA ROAD	B6	5,477	0	0	5,477
A 09-1115	750MM FEEDERMAIN - BOLTON ARTERIAL BY-PASS ROAD	C4,C5	2,676	0	0	2,676
A 10-1101	PROPERTY ACQUISITION FOR DISTRIBUTION FEEDERMAINS	M3,M4,M5	1,294	0	0	1,294
A 10-1105	400MM FEEDERMAIN - FUTURE JAMES POTTER ROAD (MOUNT PLEASANT)	B6	2,840	0	0	2,840
A 10-1113	400MM FEEDERMAIN - FUTURE ARGENTIA ROAD	M9,M10	1,864	0	0	1,864
A 10-1115	750MM FEEDERMAIN - COUNTRYSIDE DRIVE	B10	1,087	0	0	1,087
A 10-1121	MISSISSAUGA CITY CENTRE FEEDERMAIN		2,900	0	0	2,900
A 10-1135	400MM FEEDERMAIN - HERITAGE ROAD	B6	263	0	0	263
A 10-1136	400MM FEEDERMAIN - HERITAGE ROAD	B6	279	0	0	279
A 10-1156	600MM FEEDERMAIN - TORBRAM ROAD	B9,B10	353	0	0	353
Distribution System - Rehabilitation and Upgrades						
A 08-1311	MILL STREET SOUTH	B4	615	0	615	0

## 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>	2010			
			<i>Total Expense</i>	<i>External Funding</i>	<i>Internal Funding</i>	<i>DCA</i>
A 09-1311	REPLACEMENT OF WATERMAINS AT INTERSECTION IMPROVEMENTS	M5,B3	963	0	963	0
A 09-1322	BRAMPTON INDUSTRIAL SOUTH	B3,B8,B8	945	0	945	0
A 09-1330	MALTON	M5	250	0	250	0
A 09-1335	KENNEDY ROAD	B2	3,943	0	3,943	0
A 09-1390	STREETSVILLE	M11	1,970	0	1,970	0
A 10-1300	DISTRIBUTION SYSTEM - MAJOR MAINTENANCE	PEEL	1,000	0	1,000	0
A 10-1301	REPLACEMENT OF WATER SERVICES	PEEL	100	0	100	0
A 10-1302	CORROSION PROTECTION FOR VALVES IN CHAMBERS	PEEL	100	0	100	0
A 10-1313	DESIGN FOR THE REPLACEMENT OF WATERMAINS IN PEEL	PEEL	4,000	0	4,000	0
A 10-1314	CONTINGENCY FOR WATERMAIN DESIGN AND CONSTRUCTION	PEEL	6,000	0	6,000	0
A 10-1331	REPLACEMENT OF WATERMAINS IN CALEDON	C5,C1	1,008	0	1,008	0

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

2010 Funding Status:

Approved or Pending

(A/P)

↓ Project #	Project Name	Ward	2010			
			Total Expense	External Funding	Internal Funding	DCA
A 10-1351	400MM FEEDERMAIN - FUTURE EXTENSION OF DREW ROAD	M5	386	0	386	0
A 10-1352	400MM FEEDERMAIN - QUEENSWAY CORRIDOR	M2,M7,M8	551	0	551	0
A 10-1353	BURNHAMTHORPE ROAD EAST	B3	698	0	698	0
A 10-1383	EAST-WEST TRANSFER SUB-TRANSMISSION MAIN	B5,B6	1,000	0	1,000	0
A 10-1384	HUTTONVILLE WATER SYSTEM IMPROVEMENTS	B6	585	0	585	0
<b>Groundwater Systems</b>						
A 10-1805	WELL FACILITIES - MAJOR MAINTENANCE AND EQUIPMENT REPLACEMENT	PEEL	150	0	150	0
A 10-1806	GROUNDWATER SYSTEMS - MAJOR MAINTENANCE AND EQUIPMENT REPLACEMENT	PEEL	100	0	100	0
A 10-1809	PRIVATE WELL ABANDONMENT PROGRAM	PEEL	80	0	80	0
A 10-1859	STANDPIPE CORROSION PROTECTION	C1,C4	950	0	950	0
<b>Water Studies</b>						
A 06-1580	CALEDON EAST - NEW WELL AND RESERVOIR - CLASS EA	C3	340	0	0	340

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>	<u>2010</u>			
			<u>Total Expense</u>	<u>External Funding</u>	<u>Internal Funding</u>	<u>DCA</u>
A 07-1506	ZONE 6 WATER SUPPLY - CLASS EA	C2,C4	275	0	0	275
A 07-1540	NORTH BOLTON ELEVATED TANK AND TRANSMISSION MAIN - CLASS EA	C5	200	0	0	200
A 08-1506	ALTON/CALEDON VILLAGE - NEW WELL - CLASS EA	C1	315	0	0	315
A 08-1507	CHEL TENHAM VILLAGE - NEW WELL - CLASS EA	C2	310	0	0	310
A 10-1520	WATER ASSET MANAGEMENT	PEEL	500	0	500	0
A 10-1545	REGIONAL GROUNDWATER INFORMATION MANAGEMENT AND YPDT PROJECT ISSUES	PEEL	50	0	50	0
A 10-1550	SOURCE WATER PROTECTION, LAND MANAGEMENT AND WELLHEAD PROTECTION	PEEL	120	0	120	0
<b>Operating Capital</b>						
A 10-1005	RESTORATION WORKS	PEEL	50	0	50	0
A 10-1405	INSPECTION AND CONDITION ASSESSMENT OF THE SOUTH PEEL WATER SUPPLY SYSTEM	PEEL	750	0	750	0
A 10-1504	WATER SERVICING MASTER PLAN UPDATE	PEEL	500	0	0	500
A 10-1505	DISTRIBUTION SYSTEM MASTER PLAN UPDATE	PEEL	500	0	0	500

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

2010 Funding Status:

Approved or Pending

(A/P)



Project #

Project Name

Ward

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

A	10-1530	WATER INFRASTRUCTURE PLANNING	PEEL	350	0	175	175
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<i>Totals for Budget Year: 2010</i>				184,379	54,362	53,635	76,382
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**APPENDIX IV  
WATER  
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>
<b>General</b>								
Miscellaneous works related to the overall regional water system.								
<b>08-1015</b>	<b>REGULATORY COMPLIANCE INFORMATION MANAGEMENT</b> IMPLEMENTATION OF NEW APPLICATIONS TO MANAGE REGULATORY COMPLIANCE AND QUALITY INFORMATION IN ACCORDANCE WITH NEW REGULATIONS.	350	0	0	0	0	0	350
<b>10-1000</b>	<b>UNALLOCATED FUNDS</b> UNALLOCATED FUNDS AVAILABLE FOR UNFORESEEN, UNPLANNED OR EMERGENCY WORKS.	1,500	1,500	1,500	1,500	1,500	7,500	15,000
<b>10-1001</b>	<b>PRE-ENGINEERING AND DESIGN</b> FUNDING FOR PRE-ENGINEERING AND DESIGN OF WORKS SCHEDULED FOR CONSTRUCTION THE FOLLOWING YEAR.	500	500	500	500	500	2,500	5,000
<b>10 Year Totals For: General</b>		<b>2,350</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>10,000</b>	<b>20,350</b>

**Water Treatment Plants, Reservoirs and Pumping Stations**

Growth and non-growth related works to upgrade, expand or add to new lake-based plant facilities.

<b>02-1945</b>	<b>LAKEVIEW WATER TREATMENT PLANT EXPANSION (PHASE 1)</b> EXPANSION OF THE FACILITY TO INCREASE CAPACITY BY 260 ML/D. APPROXIMATELY 43% FUNDED BY YORK REGION. ADDITIONAL FUNDS.	1,000	0	0	0	0	0	1,000
<b>04-1935</b>	<b>TULLAMORE RESERVOIR AND PUMPING STATION</b> CONSTRUCTION OF A NEW 40ML RESERVOIR AND PUMPING STATION IN THE VICINITY OF MAYFIELD ROAD AND INNIS LAKE ROAD.	0	51,806	0	0	0	0	51,806

**APPENDIX IV  
WATER  
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>
<b>06-1906</b>	<b>LORNE PARK WATER TREATMENT PLANT EXPANSION</b> EXPANSION OF THE FACILITY TO INCREASE CAPACITY TO 500 ML/D. APPROXIMATELY 19% FUNDED BY YORK REGION. ADDITIONAL FUNDS.	<b>0</b>	3,900	0	4,100	0	0	<b>8,000</b>
<b>06-1922</b>	<b>STREETSVILLE RESERVOIR AND PUMPING STATION EXPANSION</b> CONSTRUCTION OF A NEW 23ML RESERVOIR AND INSTALLATION OF ADDITIONAL LOW-LIFT AND HIGH-LIFT PUMPING CAPACITY. ADDITIONAL FUNDS.	<b>0</b>	5,000	0	0	0	0	<b>5,000</b>
<b>07-1936</b>	<b>LAKEVIEW WATER TREATMENT PLANT EXPANSION (PHASE 2)</b> EXPANSION OF THE FACILITY TO INCREASE CAPACITY TO 1150 ML/D. APPROXIMATELY 68% FUNDED BY YORK REGION.	<b>0</b>	135,000	0	3,000	0	0	<b>138,000</b>
<b>07-1960</b>	<b>AIRPORT ROAD RESERVOIR AND PUMPING STATION EXPANSION</b> CONSTRUCTION OF A NEW 17ML RESERVOIR AND INSTALLATION OF ADDITIONAL HIGH-LIFT PUMPING CAPACITY. 76% FUNDED BY YORK REGION.	<b>20,574</b>	0	0	0	0	0	<b>20,574</b>
<b>08-1910</b>	<b>SOUTH PEEL ENERGY EFFICIENCY IMPROVEMENTS</b> ENGINEERING DESIGN FOR ENERGY EFFICIENCY IMPROVEMENTS AT THE SOUTH PEEL WATER FACILITIES. ADDITIONAL FUNDS.	<b>1,000</b>	0	0	0	0	0	<b>1,000</b>
<b>08-1985</b>	<b>WATER SYSTEM OPTIMIZATION PROGRAM</b> PROGRAM TO IMPLEMENT AN OPTIMIZATION STRATEGY FOR THE SOUTH PEEL WATER SUPPLY SYSTEM.	<b>143</b>	41	0	0	0	0	<b>184</b>

**APPENDIX IV  
WATER  
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>
<b>09-1937</b>	<b>LAKEVIEW WATER TREATMENT PLANT EXPANSION - STANDBY POWER</b> INSTALLATION OF ADDITIONAL STANDBY POWER AT THE LAKEVIEW WATER TREATMENT PLANT IN COORDINATION WITH THE PHASE 2 EXPANSION. APPROXIMATELY 16% FUNDED BY YORK REGION. DESIGN IN 2011.	0	2,613	16,720	28,737	0	0	48,070
<b>09-1970</b>	<b>NORTH BOLTON ELEVATED TANK</b> CONSTRUCTION OF A NEW ELEVATED TANK IN THE VICINITY OF NORTH BOLTON.	0	9,888	0	0	0	0	9,888
<b>10-1901</b>	<b>PROPERTY ACQUISITION FOR SOUTH PEEL WATER FACILITIES</b> FUNDING FOR PROPERTY ACQUISITION FOR SOUTH PEEL WATER TREATMENT PLANTS, RESERVOIRS, PUMPING STATIONS AND ELEVATED TANKS.	1,936	0	0	0	0	2,180	4,116
<b>10-1903</b>	<b>TRANSMISSION FACILITIES - MAJOR MAINTENANCE</b> PLANNED MAJOR MAINTENANCE AT THE LAKE-BASED PUMPING STATIONS, RESERVOIRS, ELEVATED TANKS, GENERATION FACILITIES AND TRANSMISSION MAINS.	3,500	1,000	1,000	1,000	1,000	0	7,500
<b>10-1904</b>	<b>TRANSMISSION FACILITIES - EQUIPMENT REPLACEMENT</b> PLANNED EQUIPMENT REPLACEMENT AT THE LAKE-BASED PUMPING STATIONS, RESERVOIRS, ELEVATED TANKS, GENERATION FACILITIES AND TRANSMISSION MAINS.	3,500	2,000	1,000	1,000	1,000	0	8,500
<b>10-1906</b>	<b>TREATMENT FACILITIES - MAJOR MAINTENANCE</b> PLANNED MAJOR MAINTENANCE AT THE LAKE-BASED WATER TREATMENT PLANTS.	2,300	450	450	450	450	2,250	6,350

**APPENDIX IV  
WATER  
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>
<b>10-1907</b>	<b>TREATMENT FACILITIES - EQUIPMENT REPLACEMENT</b> PLANNED EQUIPMENT REPLACEMENT AT THE LAKE-BASED WATER TREATMENT PLANTS.	<b>600</b>	1,050	1,050	1,050	1,050	5,250	<b>10,050</b>
<b>10-1908</b>	<b>TREATMENT PROCESS OPTIMIZATION PROJECTS</b> WORKS RELATED TO THE OPTIMIZATION OF TREATMENT PROCESSES.	<b>300</b>	300	300	300	300	1,500	<b>3,000</b>
<b>10-1911</b>	<b>TRANSIENT PROTECTION FOR THE SOUTH PEEL WATER SYSTEM</b> IMPLEMENTATION OF TRANSIENT PROTECTION MEASURES FOR THE SOUTH PEEL WATER SUPPLY SYSTEM.	<b>750</b>	750	750	750	750	3,750	<b>7,500</b>
<b>10-1916</b>	<b>VALVE REPLACEMENT PROGRAM</b> VALVE REPLACEMENT PROGRAM FOR THE SOUTH PEEL PUMPING STATIONS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE 2005/2006 AUDIT.	<b>250</b>	250	250	250	250	1,250	<b>2,500</b>
<b>10-1917</b>	<b>ENERGY MANAGEMENT SYSTEM FLOW METER REPLACEMENTS</b> REPLACEMENT OF FLOW METERS AS RECOMMENDED BY THE ENERGY MANAGEMENT SYSTEM PROJECT.	<b>2,453</b>	0	0	0	0	0	<b>2,453</b>
<b>10-1936</b>	<b>REPLACEMENT OF GRANULAR ACTIVATED CARBON FILTER MEDIA</b> REPLACEMENT OF GRANULAR ACTIVATED CARBON FILTER MEDIA USED TO CONTROL TASTE AND ODOUR AT THE LAKE-BASED WATER TREATMENT PLANTS.	<b>1,700</b>	2,200	2,700	350	2,000	10,000	<b>18,950</b>

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<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>
10-1960	<b>ALLOA RESERVOIR AND PUMPING STATION</b> CONSTRUCTION OF A NEW 25ML RESERVOIR AND PUMPING STATION IN THE VICINITY OF MAYFIELD ROAD AND CREDITVIEW ROAD. DESIGN IN 2010.	4,300	0	28,665	0	0	0	32,965
10-1965	<b>RESERVOIR OPTIMIZATION STRATEGY AND IMPLEMENTATION PROGRAM</b> PROGRAM TO DEVELOP AND IMPLEMENT A RESERVOIR OPTIMIZATION STRATEGY FOR THE LAKE-BASED RESERVOIRS.	2,750	1,250	1,000	1,000	1,000	5,000	12,000
10-1966	<b>ZONE 6 RESERVOIR</b> CONSTRUCTION OF A NEW RESERVOIR IN THE VICINITY OF DIXIE ROAD AND KING STREET. DESIGN IN 2010.	2,926	0	19,508	0	0	0	22,434
10-1983	<b>MEADOWVALE NORTH PUMPING STATION - STANDBY POWER</b> INSTALLATION OF STANDBY POWER AND A NEW GENERATOR SET AT THE FACILITY.	5,000	0	0	0	0	0	5,000
11-1912	<b>PUMPING STATION ENERGY MONITORING</b> IMPROVEMENTS IN THE METERING OF ELECTRICITY AT THE REGION'S PUMPING STATIONS.	0	411	1,161	0	0	0	1,572
12-1971	<b>NORTH STREETSVILLE ELEVATED TANK HYDRAULIC IMPROVEMENTS</b> IMPLEMENTATION OF HYDRAULIC IMPROVEMENTS AT THE ELEVATED TANK, INCLUDING THE INSTALLATION OF A STATIC MIXING SYSTEM. DESIGN IN 2012.	0	0	225	1,500	0	0	1,725
13-1984	<b>SILVERTHORN RESERVOIR AND PUMPING STATION IMPROVEMENTS AND UPGRADES</b> MAJOR IMPROVEMENTS AND UPGRADES AT THE SILVERTHORN RESERVOIR AND PUMPING STATION. DESIGN IN 2013.	0	0	0	600	4,000	0	4,600

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14-1987	<b>DIXIE ROAD BOOSTER PUMPING STATION UPGRADES</b> UPGRADES AT THE DIXIE ROAD BOOSTER PUMPING STATION. DESIGN IN 2014.	0	0	0	0	600	4,000	4,600
14-1988	<b>WEST BRAMPTON RESERVOIR AND PUMPING STATION EXPANSION</b> EXPANSION OF THE RESERVOIR AND INSTALLATION OF ADDITIONAL LOW-LIFT PUMPING CAPACITY. DESIGN IN 2014.	0	0	0	0	2,764	17,662	20,426
15-1999	<b>FUTURE WATER FACILITIES PROJECTS</b> ALLOCATIONS FOR WATER FACILITIES PROJECTS IN YEARS 6-10 OF THE REGION'S 10-YEAR WATER PROGRAM CAPITAL PLAN.	0	0	0	0	0	18,777	18,777

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<i>10 Year Totals For:</i>	<b>Treatment Facilities</b>	<b>54,982</b>	217,909	74,779	44,087	15,164	71,619	<b>478,540</b>
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**Transmission System - Development**

Installations of lake-based transmission mains to sustain Peel's growth.

04-1205	<b>BECKETT SPROULE TRANSMISSION MAIN</b> CONSTRUCTION OF A 2100MM ZONE 3 TRANSMISSION MAIN FROM THE HANLAN PUMPING STATION TO THE BECKETT SPROULE RESERVOIR. APPROXIMATELY 70% FUNDED BY YORK REGION. ADDITIONAL FUNDS.	36,100	0	0	0	0	0	36,100
08-1230	<b>NORTH BOLTON TRANSMISSION MAIN (PHASE 1)</b> CONSTRUCTION OF A 1050MM ZONE 6 TRANSMISSION MAIN FROM THE BOLTON ELEVATED TANK TO THE FUTURE NORTH BOLTON ELEVATED TANK. PHASE 1 IS PROPOSED ON COLERAINE DRIVE. IN CONJUNCTION WITH THE TOWN OF CALEDON'S ROAD PROGRAM. ADDITIONAL FUNDS.	2,400	0	0	0	0	0	2,400

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<b>09-1231</b>	<b>NORTH BOLTON TRANSMISSION MAIN (PHASE 2)</b> CONSTRUCTION OF A 1050MM ZONE 6 TRANSMISSION MAIN FROM THE BOLTON ELEVATED TANK TO THE FUTURE NORTH BOLTON ELEVATED TANK. PHASE 2 IS PROPOSED ON THE FUTURE BOLTON ARTERIAL BY-PASS ROAD. IN CONJUNCTION WITH THE REGION OF PEEL'S ROAD PROGRAM.	0	11,810	0	0	0	0	11,810
<b>10-1205</b>	<b>HANLAN TRANSMISSION MAIN</b> CONSTRUCTION OF A 2400MM ZONE 2 TRANSMISSION MAIN FROM THE LAKEVIEW WATER TREATMENT PLANT TO THE HANLAN RESERVOIR. APPROXIMATELY 42% FUNDED BY YORK REGION. DESIGN IN 2010.	31,039	0	248,355	0	0	0	279,394
<b>10-1210</b>	<b>ZONE 6 TRANSMISSION MAIN</b> CONSTRUCTION OF A 1200MM ZONE 6 TRANSMISSION MAIN ON DIXIE ROAD FROM THE NORTH BRAMPTON PUMPING STATION TO THE PROPOSED ZONE 6 RESERVOIR. DESIGN IN 2010.	3,513	0	26,933	0	0	0	30,446
<b>10-1215</b>	<b>ALLOA TRANSMISSION MAIN (PHASE 2)</b> CONSTRUCTION OF A 1200MM ZONE 5 TRANSMISSION MAIN ON MISSISSAUGA ROAD FROM BOVAIRD DRIVE TO THE PROPOSED ALLOA RESERVOIR. IN CONJUNCTION WITH THE REGION OF PEEL'S ROAD PROGRAM. DESIGN IN 2010.	3,478	0	23,188	0	0	0	26,666
<b>12-1220</b>	<b>MAYFIELD ROAD TRANSMISSION MAIN (PHASE 1)</b> CONSTRUCTION OF A 750MM ZONE 6 TRANSMISSION MAIN FROM CREDITVIEW ROAD TO VAN KIRK DRIVE. DESIGN IN 2012.	0	0	1,238	7,713	0	0	8,951

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13-1221	<b>MAYFIELD ROAD TRANSMISSION MAIN (PHASE 2)</b> CONSTRUCTION OF A 1050MM ZONE 6 TRANSMISSION MAIN FROM THE ALLOA PUMPING STATION TO CREDITVIEW ROAD. DESIGN IN 2013.	0	0	0	142	947	0	1,089
15-1299	<b>FUTURE TRANSMISSION SYSTEM PROJECTS</b> ALLOCATIONS FOR TRANSMISSION SYSTEM PROJECTS IN YEARS 6-10 OF THE REGION'S 10-YEAR WATER PROGRAM CAPITAL PLAN.	0	0	0	0	0	32,195	32,195
<b>10 Year Totals For: WTS-Development</b>		<b>76,530</b>	<b>11,810</b>	<b>299,714</b>	<b>7,855</b>	<b>947</b>	<b>32,195</b>	<b>429,051</b>

**Feedermain Distribution System - Development**

Installations of distribution feeder mains to sustain Peel's growth.

04-1180	<b>400MM FEEDERMAIN - HIGHWAY 50</b> FROM FOGAL ROAD TO QUEEN STREET EAST. ADDITIONAL FUNDS.	200	0	0	0	0	0	200
05-1119	<b>600MM FEEDERMAIN - MISSISSAUGA ROAD</b> FROM QUEEN STREET WEST TO THE FUTURE FINANCIAL DRIVE. ADDITIONAL FUNDS.	250	0	0	0	0	0	250
05-1182	<b>400MM FEEDERMAIN - CONFEDERATION PARKWAY</b> FROM RATHBURN ROAD WEST TO BURNHAMTHORPE ROAD WEST. ADDITIONAL FUNDS.	403	0	0	0	0	0	403
07-1124	<b>400MM FEEDERMAIN - MISSISSAUGA ROAD</b> FROM THE FUTURE FINANCIAL DRIVE TO STEELES AVENUE WEST. IN CONJUNCTION WITH THE WIDENING OF MISSISSAUGA ROAD.	75	0	0	0	0	0	75
08-1150	<b>600MM FEEDERMAIN - DIXIE ROAD</b> FROM COUNTRYSIDE DRIVE TO MAYFIELD ROAD. ADDITIONAL FUNDS.	375	0	0	0	0	0	375

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08-1156	<b>400MM FEEDERMAIN - FUTURE STREET (BRAM EAST)</b> FROM HIGHWAY 50 TO THE GORE ROAD. ADDITIONAL FUNDS.	527	0	0	0	0	0	527
08-1175	<b>600MM FEEDERMAIN - MISSISSAUGA ROAD</b> FROM BOVAIRD DRIVE TO THE FUTURE EXTENSION OF SANDALWOOD PARKWAY.	5,477	0	0	0	0	0	5,477
09-1115	<b>750MM FEEDERMAIN - BOLTON ARTERIAL BY-PASS ROAD</b> FROM THE PROPOSED NORTH BOLTON ELEVATED TANK TO COLUMBIA WAY AND KINGSVIEW DRIVE.	2,676	19,355	0	0	0	0	22,031
09-1140	<b>400MM FEEDERMAIN - THE GORE ROAD</b> FROM CASTLEMORE ROAD TO COUNTRYSIDE DRIVE. IN CONJUNCTION WITH THE REGION OF PEEL'S ROAD PROGRAM.	0	3,615	0	0	0	0	3,615
10-1101	<b>PROPERTY ACQUISITION FOR DISTRIBUTION FEEDERMAINS</b> FUNDING FOR PROPERTY ACQUISITION FOR DISTRIBUTION FEEDERMAINS IN THE SOUTH PEEL WATER SUPPLY SYSTEM.	1,294	0	0	0	0	0	1,294
10-1105	<b>400MM FEEDERMAIN - FUTURE JAMES POTTER ROAD (MOUNT PLEASANT)</b> FROM BOVAIRD DRIVE TO CREDITVIEW ROAD.	2,840	0	0	0	0	0	2,840
10-1113	<b>400MM FEEDERMAIN - FUTURE ARGENTIA ROAD</b> FROM TENTH LINE WEST TO NINTH LINE.	1,864	0	0	0	0	0	1,864
10-1115	<b>750MM FEEDERMAIN - COUNTRYSIDE DRIVE</b> FROM GOREWAY DRIVE TO THE GORE ROAD. DESIGN IN 2010.	1,087	7,243	0	0	0	0	8,330

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10-1121	<b>MISSISSAUGA CITY CENTRE FEEDERMAIN</b> CONSTRUCTION OF A 1200MM ZONE 3 FEEDERMAIN ON TOMKEN ROAD FROM THE HANLAN PUMPING STATION TO EASTGATE PARKWAY, ON EASTGATE PARKWAY FROM TOMKEN ROAD TO CAWTHRA ROAD AND ON CAWTHRA ROAD FROM EASTGATE PARKWAY TO BURNHAMTHORPE ROAD EAST. DESIGN IN 2010.	2,900	0	41,500	0	0	0	44,400
10-1135	<b>400MM FEEDERMAIN - HERITAGE ROAD</b> FROM STEELES AVENUE WEST TO THE FUTURE EXTENSION OF FINANCIAL DRIVE. IN CONJUNCTION WITH THE CITY OF BRAMPTON'S ROAD PROGRAM. DESIGN IN 2010.	263	1,755	0	0	0	0	2,018
10-1136	<b>400MM FEEDERMAIN - HERITAGE ROAD</b> FROM THE FUTURE EXTENSION OF FINANCIAL DRIVE TO EMBLETON ROAD. IN CONJUNCTION WITH THE CITY OF BRAMPTON'S ROAD PROGRAM. DESIGN IN 2010.	279	1,860	0	0	0	0	2,139
10-1156	<b>600MM FEEDERMAIN - TORBRAM ROAD</b> FROM MAYFIELD ROAD TO COUNTRYSIDE DRIVE. IN CONJUNCTION WITH THE CITY OF BRAMPTON'S ROAD PROGRAM. DESIGN IN 2010.	353	2,351	0	0	0	0	2,704
11-1107	<b>400MM FEEDERMAIN - FUTURE STREET (MAYFIELD WEST)</b> FROM KENNEDY ROAD TO HURONTARIO STREET.	0	1,931	0	0	0	0	1,931
11-1125	<b>400MM FEEDERMAIN - WANLESS DRIVE</b> FROM CREDITVIEW ROAD TO MISSISSAUGA ROAD. IN CONJUNCTION WITH THE CITY OF BRAMPTON'S ROAD PROGRAM. DESIGN IN 2011.	0	418	1,391	0	0	0	1,809

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11-1146	<b>600MM FEEDERMAIN - MISSISSAUGA ROAD</b> FROM THE FUTURE EXTENSION OF SANDALWOOD PARKWAY TO MAYFIELD ROAD. IN CONJUNCTION WITH THE REGION OF PEEL'S ROAD PROGRAM. DESIGN IN 2011.	0	1,135	3,784	0	0	0	4,919
12-1133	<b>400MM FEEDERMAIN - FUTURE EXTENSION OF FINANCIAL DRIVE (BRAM WEST)</b> FROM HERITAGE ROAD TO WINSTON CHURCHILL BOULEVARD.	0	0	2,147	0	0	0	2,147
12-1140	<b>750MM FEEDERMAIN - CREDITVIEW ROAD</b> FROM MAYFIELD ROAD TO WANLESS DRIVE. DESIGN IN 2012.	0	0	758	2,528	0	0	3,286
12-1147	<b>400MM FEEDERMAIN - FUTURE EXTENSION OF SANDALWOOD PARKWAY (MOUNT PLEASANT)</b> FROM CREDITVIEW ROAD TO MISSISSAUGA ROAD. IN CONJUNCTION WITH THE CITY OF BRAMPTON'S ROAD PROGRAM.	0	0	2,185	0	0	0	2,185
12-1150	<b>400MM FEEDERMAIN - FUTURE STREET (MOUNT PLEASANT)</b> FROM THE FUTURE EXTENSION OF JAMES POTTER ROAD TO THE FUTURE EXTENSION OF SANDALWOOD PARKWAY.	0	0	1,557	0	0	0	1,557
12-1152	<b>400MM FEEDERMAIN - CHINGUACOUSY ROAD</b> FROM MAYFIELD ROAD TO WANLESS DRIVE. DESIGN IN 2012.	0	0	252	1,679	0	0	1,931
12-1176	<b>600MM FEEDERMAIN - MAYFIELD ROAD</b> FROM GOREWAY DRIVE TO THE GORE ROAD. IN CONJUNCTION WITH THE REGION OF PEEL'S ROAD PROGRAM. DESIGN IN 2012.	0	0	607	5,276	0	0	5,883

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12-1181	<b>400MM FEEDERMAIN - HEART LAKE ROAD</b> FROM MAYFIELD ROAD TO THE FUTURE EAST-WEST ROAD IN MAYFIELD WEST. DESIGN IN 2012.	0	0	127	842	0	0	969
13-1130	<b>750MM FEEDERMAIN - BOVAIRD DRIVE</b> FROM MISSISSAUGA ROAD TO HERITAGE ROAD. IN CONJUNCTION WITH THE REGION OF PEEL'S ROAD PROGRAM. DESIGN IN 2013.	0	0	0	750	2,428	0	3,178
13-1131	<b>400MM FEEDERMAIN - BOVAIRD DRIVE</b> FROM HERITAGE ROAD TO THE FUTURE NORTH-SOUTH COLLECTOR ROAD. IN CONJUNCTION WITH THE REGION OF PEEL'S ROAD PROGRAM. DESIGN IN 2013.	0	0	0	215	717	0	932
13-1142	<b>400MM FEEDERMAIN - FUTURE STREET (MOUNT PLEASANT)</b> FROM THE FUTURE EXTENSION OF SANDALWOOD PARKWAY TO WANLESS DRIVE.	0	0	0	2,142	0	0	2,142
13-1143	<b>400MM FEEDERMAIN - FUTURE STREET (MOUNT PLEASANT)</b> FROM CREDITVIEW ROAD TO MISSISSAUGA ROAD.	0	0	0	2,185	0	0	2,185
13-1145	<b>900MM FEEDERMAIN - MAYFIELD ROAD</b> FROM THE ALLOA PUMPING STATION TO MISSISSAUGA ROAD. DESIGN IN 2013.	0	0	0	439	2,924	0	3,363
13-1168	<b>400MM FEEDERMAIN - NEW EAST-WEST ROAD (NORTHEAST BRAMPTON)</b> FROM THE GORE ROAD TO CLARKWAY DRIVE. IN CONJUNCTION WITH THE CITY OF BRAMPTON'S ROAD PROGRAM.	0	0	0	1,638	0	0	1,638

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13-1169	<b>400MM FEEDERMAIN - NEW EAST-WEST ROAD (NORTHEAST BRAMPTON)</b> FROM CLARKWAY DRIVE TO COLERAINE DRIVE. IN CONJUNCTION WITH THE CITY OF BRAMPTON'S ROAD PROGRAM.	0	0	0	1,862	0	0	1,862
13-1182	<b>400MM FEEDERMAIN - FUTURE EAST-WEST ROAD (MAYFIELD WEST)</b> FROM HEART LAKE ROAD TO DIXIE ROAD.	0	0	0	1,638	0	0	1,638
14-1137	<b>400MM FEEDERMAIN - FUTURE STREET (MOUNT PLEASANT)</b> FROM WANLESS DRIVE TO CREDITVIEW ROAD.	0	0	0	0	1,393	0	1,393
15-1199	<b>FUTURE DISTRIBUTION FEEDERMAIN PROJECTS</b> ALLOCATIONS FOR DISTRIBUTION FEEDERMAIN PROJECTS IN YEARS 6-10 OF THE REGION'S 10-YEAR WATER PROGRAM CAPITAL PLAN.	0	0	0	0	0	39,125	39,125
<b>10 Year Totals For: WDS-Development</b>		<b>20,863</b>	<b>39,663</b>	<b>54,308</b>	<b>21,194</b>	<b>7,462</b>	<b>39,125</b>	<b>182,615</b>

**Distribution System - Rehabilitation and Upgrades**

Replacements, repairs and upgrades related to the lake-based distribution system.

08-1311	<b>MILL STREET SOUTH</b> REPLACEMENT OF THE EXISTING WATERMAIN ON MILL STREET SOUTH FROM AMBLESIDE DRIVE TO ELIZABETH STREET SOUTH (UPGRADE TO 300MM). ADDITIONAL FUNDS.	615	0	0	0	0	0	615
09-1311	<b>REPLACEMENT OF WATERMAINS AT INTERSECTION IMPROVEMENTS</b> REPLACEMENT OF WATERMAINS IN CONJUNCTION WITH INTERSECTION IMPROVEMENTS AT DERRY ROAD EAST AND GOREWAY DRIVE AND AT STEELES AVENUE EAST AND ADVANCE BOULEVARD. ADDITIONAL FUNDS.	963	0	0	0	0	0	963

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<b>09-1322</b>	<b>BRAMPTON INDUSTRIAL SOUTH</b> REPLACEMENT OF EXISTING WATERMAINS ON ATLAS COURT, WEST DRIVE AND ELROSE ROAD. ADDITIONAL FUNDS.	945	0	0	0	0	0	945
<b>09-1330</b>	<b>MALTON</b> JUSTINE DRIVE, DORCAS STREET, MINOTOLA AVENUE, BRAMALEA ROAD (DREW ROAD TO CITY LIMIT) AND ETUDE DRIVE (GOREWAY DRIVE TO LANCASTER AVENUE). ADDITIONAL FUNDS.	250	0	0	0	0	0	250
<b>09-1335</b>	<b>KENNEDY ROAD</b> REPLACEMENT OF THE EXISTING WATERMAIN ON KENNEDY ROAD FROM MAYFIELD ROAD TO SOMERSET DRIVE (UPGRADE TO 600MM). ADDITIONAL FUNDS.	3,943	0	0	0	0	0	3,943
<b>09-1390</b>	<b>STREETSVILLE</b> REPLACEMENT OF THE EXISTING 400MM WATERMAINS ON QUEEN STREET SOUTH (OLD PINE STEET TO REID DRIVE) AND ON THOMAS STREET (CHURCH STREET TO DURIE ROAD). ADDITIONAL FUNDS.	1,970	0	0	0	0	0	1,970
<b>10-1300</b>	<b>DISTRIBUTION SYSTEM - MAJOR MAINTENANCE</b> PLANNED MAJOR MAINTENANCE OF THE REGIONAL WATER DISTRIBUTION SYSTEM.	1,000	1,000	1,000	1,000	1,000	5,000	10,000
<b>10-1301</b>	<b>REPLACEMENT OF WATER SERVICES</b> UPGRADE OF 13-MM (1/2-INCH) WATER SERVICES WITH 20-MM (3/4-INCH) WATER SERVICES.	100	100	100	100	100	500	1,000

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10-1302	<b>CORROSION PROTECTION FOR VALVES IN CHAMBERS</b> WORKS TO PROVIDE CORROSION PROTECTION FOR VALVES IN CHAMBERS.	100	100	100	100	100	500	1,000
10-1313	<b>DESIGN FOR THE REPLACEMENT OF WATERMAINS IN PEEL</b> FUNDS FOR THE DESIGN OF WATERMAIN REPLACEMENT PROJECTS IN PEEL FOR THE FOLLOWING YEAR.	4,000	4,000	4,000	4,000	4,000	20,000	40,000
10-1314	<b>CONTINGENCY FOR WATERMAIN DESIGN AND CONSTRUCTION</b> FUNDS FOR CONTINGENCY FOR WATERMAIN REPLACEMENT PROJECTS APPROVED UNDER THE INFRASTRUCTURE STIMULUS FUND.	6,000	0	0	0	0	0	6,000
10-1331	<b>REPLACEMENT OF WATERMAINS IN CALEDON</b> REPAIR AND REPLACEMENT OF WATERMAINS IN CALEDON AND LOOPING OF DEAD-END MAINS TO IMPROVE WATER QUALITY AND RELIABILITY OF THE DISTRIBUTION SYSTEM. SOME OF THE WATERMAINS INCLUDED IN THIS PROGRAM ARE TIED TO THE TOWN OF CALEDON'S ROAD RESURFACING PROGRAM.	1,008	0	0	0	0	0	1,008
10-1351	<b>400MM FEEDERMAIN - FUTURE EXTENSION OF DREW ROAD</b> FROM TOMKEN ROAD TO DIXIE ROAD. DESIGN IN 2010.	386	2,571	0	0	0	0	2,957
10-1352	<b>400MM FEEDERMAIN - QUEENSWAY CORRIDOR</b> FROM THE HERRIDGE PUMPING STATION TO DOULTON DRIVE. DESIGN IN 2010.	551	3,673	0	0	0	0	4,224

**APPENDIX IV  
WATER  
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>
10-1353	<b>BURNHAMTHORPE ROAD EAST</b> REPLACEMENT OF THE EXISTING WATERMAIN ON BURNHAMTHORPE ROAD EAST FROM THE WEST SIDE OF THE LITTLE ETOBICOKE CREEK TO WEST OF GOLDEN ORCHARD DRIVE (UPGRADE TO 400MM).	698	0	0	0	0	0	698
10-1383	<b>EAST-WEST TRANSFER SUB-TRANSMISSION MAIN</b> DESIGN OF A 750MM SUB-TRANSMISSION MAIN TO FACILITATE EAST-WEST TRANSFER OF WATER IN BRAMPTON.	1,000	0	0	0	0	0	1,000
10-1384	<b>HUTTONVILLE WATER SYSTEM IMPROVEMENTS</b> IMPROVEMENTS TO THE WATER DISTRIBUTION SYSTEM IN HUTTONVILLE IN CONJUNCTION WITH THE COMMISSIONING OF THE WEST BRAMPTON RESERVOIR AND PUMPING STATION.	585	0	0	0	0	0	585
11-1345	<b>REPLACEMENT OF WATERMAINS IN MISSISSAUGA</b> REPAIR AND REPLACEMENT OF WATERMAINS IN MISSISSAUGA AND LOOPING OF DEAD-END MAINS TO IMPROVE WATER QUALITY AND RELIABILITY OF THE DISTRIBUTION SYSTEM. SOME OF THE WATERMAINS INCLUDED IN THIS PROGRAM ARE TIED TO THE CITY OF MISSISSAUGA'S ROAD RESURFACING PROGRAM.	0	32,082	17,239	13,199	19,801	86,517	168,838

**APPENDIX IV  
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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>
11-1375	<b>REPLACEMENT OF WATERMAINS IN BRAMPTON</b> REPAIR AND REPLACEMENT OF WATERMAINS IN BRAMPTON AND LOOPING OF DEAD-END MAINS TO IMPROVE WATER QUALITY AND RELIABILITY OF THE DISTRIBUTION SYSTEM. SOME OF THE WATERMAINS INCLUDED IN THIS PROGRAM ARE TIED TO THE CITY OF BRAMPTON'S ROAD RESURFACING PROGRAM.	0	28,216	11,068	11,867	4,000	26,011	81,162
<b>10 Year Totals For: WDS-Imp. &amp; Upgrades</b>		<b>24,114</b>	<b>71,742</b>	<b>33,507</b>	<b>30,266</b>	<b>29,001</b>	<b>138,528</b>	<b>327,158</b>

**Groundwater Systems**

Replacements, upgrades, and new facilities related to groundwater based systems.

10-1801	<b>PROPERTY ACQUISITION FOR GROUNDWATER SYSTEM PROJECTS</b> FUNDING FOR PROPERTY ACQUISITION FOR GROUNDWATER SYSTEM PROJECTS.	0	792	0	0	0	1,650	2,442
10-1805	<b>WELL FACILITIES - MAJOR MAINTENANCE AND EQUIPMENT REPLACEMENT</b> PLANNED MAJOR MAINTENANCE AND EQUIPMENT REPLACEMENT FOR THE WELL FACILITIES.	150	150	150	150	150	750	1,500
10-1806	<b>GROUNDWATER SYSTEMS - MAJOR MAINTENANCE AND EQUIPMENT REPLACEMENT</b> PLANNED MAJOR MAINTENANCE AND EQUIPMENT REPLACEMENT FOR THE GROUNDWATER SYSTEMS.	100	100	100	100	100	500	1,000
10-1809	<b>PRIVATE WELL ABANDONMENT PROGRAM</b> PRIVATE WELL ABANDONMENT PROGRAM IN CALEDON AND RURAL AREAS OF BRAMPTON TO ELIMINATE DIRECT PATHWAYS TO GROUNDWATER CONTAMINATION AND TO PROTECT PEEL AQUIFERS.	80	80	80	80	80	0	400

**APPENDIX IV  
WATER  
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>
10-1859	<b>STANDPIPE CORROSION PROTECTION</b> CORROSION PROTECTION IMPROVEMENTS FOR THE ALTON AND MONO MILLS STANDPIPES.	950	0	0	0	0	0	950
11-1831	<b>ALTON/CALEDON VILLAGE - NEW WELL</b> CONSTRUCTION OF A NEW WELL TO SERVICE GROWTH IN ALTON AND CALEDON VILLAGES. DESIGN IN 2011.	0	951	6,340	0	0	0	7,291
11-1832	<b>CHELTENHAM VILLAGE - NEW WELL</b> CONSTRUCTION OF A NEW WELL TO SERVICE GROWTH IN CHELTENHAM VILLAGE. DESIGN IN 2011.	0	915	6,097	0	0	0	7,012
11-1835	<b>CALEDON EAST - NEW WELL</b> CONSTRUCTION OF A NEW WELL TO SERVICE GROWTH IN CALEDON EAST. DESIGN IN 2011.	0	786	5,242	0	0	0	6,028
12-1850	<b>CHELTENHAM RESERVOIR EXPANSION</b> EXPANSION TO INCREASE STORAGE CAPACITY TO SERVICE GROWTH IN CHELTENHAM VILLAGE. DESIGN IN 2012.	0	0	146	975	0	0	1,121
12-1855	<b>CALEDON EAST - NEW RESERVOIR</b> EXPANSION OF THE EXISTING RESERVOIR OR CONSTRUCTION OF A NEW RESERVOIR TO SERVICE GROWTH IN CALEDON EAST. DESIGN IN 2012.	0	0	823	5,487	0	0	6,310
15-1899	<b>FUTURE GROUNDWATER SYSTEMS PROJECTS</b> ALLOCATIONS FOR GROUNDWATER SYSTEMS PROJECTS IN YEARS 6-10 OF THE REGION'S 10-YEAR WATER PROGRAM CAPITAL PLAN.	0	0	0	0	0	10,364	10,364
<b>10 Year Totals For: Groundwater Systems</b>		<b>1,280</b>	<b>3,774</b>	<b>18,978</b>	<b>6,792</b>	<b>330</b>	<b>13,264</b>	<b>44,418</b>

**APPENDIX IV  
WATER  
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>
<b>Water Studies</b>								
Water Studies, Environmental Assessments and Planning.								
<b>06-1580</b>	<b>CALEDON EAST - NEW WELL AND RESERVOIR - CLASS EA</b> CLASS EA FOR A NEW WELL AND RESERVOIR TO SERVICE GROWTH IN CALEDON EAST. ADDITIONAL FUNDS.	340	0	0	0	0	0	340
<b>07-1506</b>	<b>ZONE 6 WATER SUPPLY - CLASS EA</b> CLASS EA FOR A NEW RESERVOIR AND TRANSMISSION MAIN TO SERVICE GROWTH IN PRESSURE ZONE 6. ADDITIONAL FUNDS.	275	0	0	0	0	0	275
<b>07-1540</b>	<b>NORTH BOLTON ELEVATED TANK AND TRANSMISSION MAIN - CLASS EA</b> CLASS EA FOR A NEW ELEVATED TANK AND TRANSMISSION MAIN IN NORTH BOLTON. ADDITIONAL FUNDS.	200	0	0	0	0	0	200
<b>08-1506</b>	<b>ALTON/CALEDON VILLAGE - NEW WELL - CLASS EA</b> CLASS EA FOR A NEW WELL TO SERVICE GROWTH IN ALTON AND CALEDON VILLAGES. ADDITIONAL FUNDS.	315	0	0	0	0	0	315
<b>08-1507</b>	<b>CHELTENHAM VILLAGE - NEW WELL - CLASS EA</b> CLASS EA FOR A NEW WELL TO SERVICE GROWTH IN CHELTENHAM VILLAGE. ADDITIONAL FUNDS.	310	0	0	0	0	0	310
<b>10-1520</b>	<b>WATER ASSET MANAGEMENT</b> COLLECTION OF DATA AND DEVELOPMENT OF AN ASSET MANAGEMENT PROGRAM FOR THE REGION'S WATER INFRASTRUCTURE.	500	500	0	0	0	0	1,000

**APPENDIX IV  
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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>
10-1545	<b>REGIONAL GROUNDWATER INFORMATION MANAGEMENT AND YPDT PROJECT ISSUES</b> REGIONAL GROUNDWATER INFORMATION MANAGEMENT SYSTEM INCLUDING PROJECT MANAGEMENT AND ANALYSIS ARISING FROM THE YPDT GROUNDWATER MANAGEMENT STRATEGY.	50	50	50	50	50	250	500
10-1550	<b>SOURCE WATER PROTECTION, LAND MANAGEMENT AND WELLHEAD PROTECTION</b> GROUNDWATER-RELATED SOURCE WATER PROTECTION, LAND MANAGEMENT AND WHPA ISSUES IN PEEL RELATING TO PROVINCIALLY LEGISLATED REQUIREMENTS UNDER THE CLEAN WATER ACT, 2006.	120	120	120	120	120	600	1,200
11-1511	<b>STREETSVILLE TRANSMISSION MAIN TWINNING - CLASS EA</b> CLASS EA FOR A NEW 2100MM ZONE 2 TRANSMISSION MAIN FROM THE HERRIDGE PUMPING STATION TO THE STREETSVILLE RESERVOIR.	0	1,500	0	0	0	0	1,500
15-1599	<b>FUTURE WATER STUDIES PROJECTS</b> ALLOCATIONS FOR WATER STUDIES PROJECTS IN YEARS 6-10 OF THE REGION'S 10-YEAR WATER PROGRAM CAPITAL PLAN.	0	0	0	0	0	6,200	6,200
<b>10 Year Totals For: Water Studies</b>		<b>2,110</b>	<b>2,170</b>	<b>170</b>	<b>170</b>	<b>170</b>	<b>7,050</b>	<b>11,840</b>

**Operating Capital**

10-1005	<b>RESTORATION WORKS</b> INVESTIGATIONS AND REMEDIATION WORKS RELATED TO POST-CONTRACT ISSUES.	50	50	50	50	50	250	500
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**APPENDIX IV  
WATER  
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>
10-1405	<b>INSPECTION AND CONDITION ASSESSMENT OF THE SOUTH PEEL WATER SUPPLY SYSTEM</b> EXTENSION OF THE CURRENT PROGRAM TO COMPLETE AN ASSESSMENT OF THE ENTIRE SOUTH PEEL WATER SUPPLY SYSTEM.	750	750	750	750	750	3,750	7,500
10-1504	<b>WATER SERVICING MASTER PLAN UPDATE</b> REVIEW AND UPDATE OF THE REGIONAL WATER SERVICING MASTER PLAN.	500	0	0	0	0	500	1,000
10-1505	<b>DISTRIBUTION SYSTEM MASTER PLAN UPDATE</b> REVIEW AND UPDATE OF THE REGIONAL DISTRIBUTION SYSTEM MASTER PLAN.	500	0	0	0	0	500	1,000
10-1530	<b>WATER INFRASTRUCTURE PLANNING</b> WATER INFRASTRUCTURE PLANNING, STUDIES AND LOCAL IMPROVEMENT INVESTIGATIONS.	350	350	350	350	350	1,750	3,500
13-1406	<b>FLOW MONITORING PROGRAM FOR THE SOUTH PEEL TRANSMISSION SYSTEM</b> PRESSURE AND FLOW MONITORING PROGRAM FOR THE SOUTH PEEL TRANSMISSION SYSTEM.	0	0	0	5,000	0	0	5,000
<b>10 Year Totals For:</b>	<b>Operating Capital</b>	<b>2,150</b>	<b>1,150</b>	<b>1,150</b>	<b>6,150</b>	<b>1,150</b>	<b>6,750</b>	<b>18,500</b>
<b>Totals for 10 Year Capital Plan:</b>		<b>184,379</b>	<b>350,218</b>	<b>484,606</b>	<b>118,514</b>	<b>56,224</b>	<b>318,531</b>	<b>1,512,472</b>

**APPENDIX V  
WATER  
OUTPUT AND OUTCOME MEASURES**

<b>Output/Outcome Measures</b>	<b>2009 Target</b>	<b>2009 Pojection</b>	<b>2010 Target</b>	<b>Commentary</b>
Provide water infrastructure to meet all water demands in Peel - no water restrictions.	0 water restrictions	0 water restrictions	0 water restrictions	On target
Address customer inquiries on water related issues in a timely fashion	100% of the time	98 per cent	100% of the time	Addressing of Water Quality inquiries at 98 per cent but problem resolution and length of investigation may depend on the problem type and level of involvement
Respond to watermain and infrastructure failures within one hour	90% of the time	90% of the time	90% of the time	On target