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WATER AND WASTEWATER INFRASTRUCTURE STATUS REPORT

The Environmental Services Committee recommends:

- 1. Receipt of the presentation by Daniel Kostopoulos, Director, Capital Planning and Delivery, Environmental Services; and**
- 2. Adoption of the recommendation contained in the following report dated May 19, 2010, from the Commissioner of Environmental Services.**

1. RECOMMENDATION

It is recommended that:

1. The Regional Clerk circulate this report to the Clerks of the local municipalities.

2. PURPOSE

This report updates Regional Council on the status of priority water and wastewater infrastructure projects required to meet system demands identified as triggers for release of additional capacity and approvals under the *Planning Act*.

3. BACKGROUND

Capacity assigned to local municipalities serviced by York Durham Sewage System totaling 1,078,328 people

Regional Council, at its meeting on June 23, 2005, granted release of additional servicing capacity to accommodate up to 970,000 people to local municipalities serviced by the York Durham Sewage System (YDSS) to meet Regional growth target to 2010. Subsequently, on November 15, 2007 and December 18, 2008, a combined additional capacity of 72,000 people was assigned to service growth target for 2011 and 2012.

On February 18, 2010, a new capacity assignment of an additional 36,328 people was presented to Regional Council for local municipalities serviced by the YDSS conditional on local council resolutions to reduce inflow and infiltration (I-I) in local and Regional sanitary sewage systems. This allocation is intended to facilitate growth to the end of 2013.

This report is a regular update to Regional Council. The last update to Council was on March 25, 2010 and the next update is scheduled for September 2010.

4. ANALYSIS AND OPTIONS

ALLOCATION TRIGGERS

Capacity triggers allow the Region to ensure occupancy of new homes timed to coincide with available water and wastewater services

Capacity assignments made to local municipalities were subject to completion of certain infrastructure projects referred to as triggers. Projects identified as triggers for the capacity assignment are summarized in *Attachments 1, 2 and 3*. These triggers assist the Region in better controlling two key steps in the planning approvals process:

- Pre-sales of homes
- Final plan approvals

Capacity trigger control is required to avoid premature occupancy of new dwellings in advance of availability of the required municipal water and wastewater services.

In general, pre-sales of homes are only permitted if the required infrastructure is expected to be in place within one year and final plan approvals are granted if the required infrastructure is expected to be in place within six months. At the discretion of local municipality, high-density development may move to final approval within eighteen months of completion of required infrastructure and complex high-rise developments within thirty six months of completion of required infrastructure.

KEY PROJECT STATUS HIGHLIGHTS

Highlights of key priority projects and implications to planning approvals are provided in this section. Status of these projects is summarized in *Attachments 1, 2, 3 and 4*. Project locations are illustrated in *Attachment 5*.

Projects required to service 2005 allocation of 970,000 people near completion

Projects required to service the 2005 allocation are complete with the exception of King City water supply and Queensville/Holland Landing/Sharon servicing as shown in *Attachment 1*.

King City Water Supply scheduled for completion in Q1 2011

The King City water supply project is comprised of a new elevated tank and a watermain connection to the York Water System. The elevated tank contract was awarded and

construction has started. The elevated tank is expected to be completed in the first quarter of 2011 (last update: first quarter of 2011). The watermain was tendered in May 2010 and is expected to be completed by the first quarter of 2011 (last update: end of year 2010). With both contracts expected to be completed in the first quarter of 2011, final plan approval for developments in King City is projected to occur in the third quarter of 2010 (last update: third quarter of 2010).

Design near completion for Queensville/Holland Landing/Sharon Servicing

The prepaid development charge credit agreement for Queensville/Holland Landing/Sharon YDSS connection has now been executed. The anticipated completion date of this project has been revised to December 2012 (last update: December 2011) due to delays in obtaining regulatory permits and temporary working easements. The Queensville water storage tank No. 1 is still planned to be completed by December 2011 (last update: December 2011).

Trigger conditions met for final plan approval associated with 2005 capacity assignment

Allocation trigger conditions for final plan approval related to the assigned capacity of 970,000 people have been met for Vaughan, Markham, Richmond Hill, Aurora, Newmarket and Green Lane West area in East Gwillimbury. As discussed above, final plan approval for King City is projected to occur in the third quarter of 2010 (last update: third quarter of 2010) and for Queensville/Holland Landing/Sharon in the second quarter of 2012 (last update: second quarter of 2011).

Works to service additional allocation of 72,000 people expected to be completed by 2010

Projects required to service an additional 72,000 people beyond the June 2005 allocation of 970,000 people are summarized in *Attachment 2*. Additional details on the status of these projects are presented below.

Duffin Creek Water Pollution Control Plant liquid process expansion expected to be completed by 2010

The Duffin Creek Water Pollution Control Plant (WPCP) Stage 3 Liquid Process Expansion remains on schedule for substantial completion by December 2010. Two of the components, the liquids treatment facility contract is approximately 90% complete (last reported 80%) and the preliminary treatment facility contract is approximately 90% complete (last reported 80%). The Enhanced Phosphorous Removal contract is approximately 10% complete and the main construction contract for Stage 3 Solid Process Expansion awarded in November 2009 is approximately 15% complete. The Solid Process Expansion is scheduled for completion in the second quarter of 2012. Committed allocations will not be affected by completion of the Solid Process Expansion

contract in 2012, as the Liquid Process Expansion contract that will provide additional capacity for growth is still on track for completion in December 2010.

YDSS Flow Control Structures completed in May 2010

Implementation of flow control structures on the YDSS to attenuate peak wastewater flows to provide additional capacity for growth prior to completion of the Southeast Collector Sewer (SEC) was commissioned in May 2010.

Leslie Street Watermain scheduled for completion in May 2011

Leslie Street watermain is required to service Aurora East pressure district which includes primarily lands east of Leslie Street in Aurora with a small portion in Newmarket immediately north of the Aurora and Newmarket municipal boundary. The watermain was tendered in May 2010 and the expected completion date is May 2011 (last update: January 2011).

Final plan approval for developments requiring the Leslie Street watermain is projected to occur in the fourth quarter of 2010 (last update: third quarter of 2010).

Richmond Hill Elevated Tank No. 2 on track for completion in May 2011

Completion of the new pressure district nine elevated tank in Oak Ridges is still on track for completion in May 2011 (last update: May 2011). Decommissioning of the existing water standpipe, included as part of the construction contract, will be completed by October 2011 (last update: October 2011).

Final plan approval for developments in Richmond Hill pressure district nine service area is projected to occur in the fourth quarter of 2010 (last update: fourth quarter of 2010).

Trigger conditions for pre-sales associated with the 72,000 people capacity assignment have been met

With the Duffin Creek WPCP Liquid Process Expansion and other trigger projects on schedule for completion by December 2010 (last update: December 2010) the Region advised local municipalities serviced by the YDSS that allocation trigger conditions for pre-sales of homes have been met with the exception of Queensville/Holland Landing/Sharon, King City and Richmond Hill pressure district nine service area. Pre-sales for Queensville/Holland Landing/Sharon are projected to occur in the fourth quarter of 2011 (last update: December 2010), King City in the second quarter of 2010 (last update: first quarter of 2010) and Richmond Hill pressure district nine service area in the second quarter of 2010 (last update: second quarter of 2010).

In February 2010 additional capacity of 36,328 people identified to service growth in 2013

In February 2010, Regional Council approved the additional capacity of 36,328 people to local municipalities conditional on local council resolutions to reduce inflow and infiltration in local and Regional sanitary sewage systems. Projects required to service the additional 36,328 people are summarized in *Attachment 3*. Release of this capacity was conditional upon receipt of MOE approval of the SEC Individual Environmental Assessment (IEA).

Southeast Collector Trunk Sewer to be commissioned in 2014

The SEC IEA was approved by MOE on March 31, 2010, subject to a number of stringent conditions to be met within stipulated timelines. Some conditions are required to be met prior to construction including the development of a complaint protocol six months prior to construction. As a result, the construction start date may be deferred until spring 2011 and the commissioning date for SEC is now forecasted to occur in early to mid 2014 (last update: late 2013). The Region has given top priority in achieving the IEA approval conditions and has moved forward to form an Inflow and Infiltration (I-I) Reduction Task Force comprising staff from both the Region and local municipalities, in response to an approval condition requiring the development of an I-I reduction strategy.

Design work is near completion and tenders for the tunnel contract will be issued upon completion of detailed design. The activities noted below have been advanced:

- Contract for procurement of four tunnel boring machines.
- Contract for supply of segmental liner materials for the tunnel construction.
- Contract for rehabilitation, improvement and resurfacing of haul roads to move materials from the tunnel operation to a suitable site. Road works are scheduled to be completed in 2010.
- Pre-qualification process completed to identify general contractors for works related to the tunnel and shaft construction using the machines and liner segments procured through the early procurement tenders discussed above.
- Property acquisition of lands required for the project including initiating expropriation process where necessary.

Revised Southeast Collector Trunk Sewer completion date will not affect 2013 allocation

2013 capacity assignment to local municipalities in February 2010 was conditional upon MOE approval of the SEC IEA and commitments of local municipalities to partner with the Region to implement local and Regional I-I reduction programs.

With the approval of the SEC IEA now in place, the first condition has been met. As discussed above, an I-I Reduction Task Force was recently formed to coordinate regional and local municipalities activities needed to advance the I-I reduction program.

2013 capacity assignment is subject to completion of triggers, including no pre-sales be permitted two years prior to the commissioning date of SEC. Timing for pre-sales will be confirmed as the project proceeds through construction. With the expected commissioning date of the SEC now forecasted to occur in early to mid 2014, the exposure to system risk is extended beyond the originally anticipated 12 month period to up to 18 months. The risk period may be mitigated through implementation of the I-I reduction program. At this time, it is recommended that the date for permitting pre-sales be maintained at December 2011 (last update: December 2011) and be updated subject to future progress of SEC and measurable outcomes of I-I programs.

Key infrastructure projects identified for servicing beyond current capacity assignment

The status of major projects required to service growth beyond 2013 is presented below and summarized in *Attachment 4*.

Duffin Creek Stage 1 and 2 Upgrades will be required as a condition of Certificate of Approval (air)

Recently, the MOE confirmed that upgrades of the existing plant (Stage 1 and 2) are required as a condition of approving the Certificate of Approval (Air) for the ongoing Stage 3 expansion works. The works will require partial shutdown of the existing Stage 1 and 2 operations, resulting in temporarily reduced treatment capacity as low as 470 ML/day, which is only sufficient to meet the projected flow for 2013. Staff is negotiating the implementation requirements for these works with the Ministry to minimize impacts to servicing beyond 2013, and also is looking to secure approval of a work plan that accommodates adequate interim treatment capacity and achievable implementation timeframes. Preliminary rehabilitation planning assessments indicated upgrades will be completed by December 2016.

Duffin Creek Water Pollution Control Plant Outfall – Environmental Assessment work initiated

The Regions of York and Durham have recently initiated a joint Schedule C Class Environmental Assessment study to identify a preferred method of addressing the limitations of the existing outfall and diffuser system at the Duffin Creek WPCP, which is sufficient for flows up to 520 ML/day. The preferred solution will permit the Duffin Creek WPCP to operate at a capacity of 630 ML/day. The Environmental Assessment will be undertaken to satisfy requirements of the Municipal Class Environmental Assessment and the Canadian Environmental Assessment process as one harmonized

study. The Environmental Assessment study is expected to be completed in 2012 and construction of the outfall is expected to be completed in 2016 (last update: 2016).

Upper York Servicing Solutions - Terms of Reference approved

The Terms of Reference (TOR) for the Upper York Servicing Solutions (UYSS) project was approved by the MOE on March 11, 2010 with the amendment that “Innovative Wastewater Treatment Technologies” be considered in the Environmental Assessment. At a minimum, this will include but not be limited to consideration of development and use of a wastewater purification system and water recycling facilities to be located in York Region.

Alternatives to the Undertaking stage has begun, which involves identifying, developing, documenting and assessing alternatives for the project. A preferred alternative is anticipated to be identified by late 2010 (last update: late 2010) and the Environmental Assessment Report is scheduled for completion in December 2012 (last update: December 2012). Staff is currently reviewing the implication of the TOR amendment and its impact on the timing of the project. Until such time as the assessment is complete, the anticipated completion date is still scheduled for 2016 (last update: late 2016).

The project cost estimates for the Upper York Servicing Solutions project range from \$350 million to \$580 million depending upon the specific alternatives being reviewed. The approved 2010 ten year capital plan includes \$392 million for this project. The updated project cost of \$500 million shown in Table 1 reflects current pricing and is included in the current Development Charge By-law update. This updated project cost will be brought forward for approval as part of the 2011 capital budget process.

Toronto East Water Supply expected to be completed by December 2011

The Toronto East Water Supply project is required to bring additional water to the Markham pressure district six areas from Toronto to meet long-term growth demands. A 1500mm diameter watermain is proposed to be constructed from the Milliken Pumping Station on 14th Avenue to Major Mackenzie Drive. The work will be completed under two contracts. The first contract is for open cut construction from north of Highway 7 to Major Mackenzie Drive and scheduled for tender in June 2010. The second contract is for tunnel construction from Milliken Pumping Station to north of Highway 7 and scheduled for tender in August 2010. The entire watermain from Milliken Pumping Station to Major Mackenzie Drive will be commissioned by December 2011 (last update: second quarter of 2011).

West Richmond Hill Pumping Station – Consultant retained for Environmental Assessment study

West Richmond Hill Pumping Station is a new pumping facility identified by the 2009 Water and Wastewater Master Plan Update to service pressure district eight. Currently,

the pressure district eight area in Richmond Hill is serviced by the North Richmond Hill pumping station which pumps water from pressure district seven system which in turn is serviced by the existing Pugsley pumping station. The new pumping station will pump water directly from the pressure district six system and alleviate existing capacity constraints in Pugsley pumping station. A Request for Proposal (RFP) was issued in March 2010 and a consultant was retained to undertake the Environmental Study. The project is expected to be completed in 2014 (last update: 2014).

Environmental Assessment for West Vaughan Sewage Servicing to commence in fourth quarter of 2010

West Vaughan Sewage Servicing is a new project identified by the 2009 Water and Wastewater Master Plan Update to provide sanitary sewage capacity to service growth in the West Vaughan area (the area west of Highway 27 including Kleinburg-Nashville) up to the year 2051. An EA Study to determine the preferred option for providing sewage capacity is expected to commence in the fourth quarter of 2010. The project is scheduled for completion by 2015.

Staff continue to monitor status of Peel and Toronto cost shared projects

Provision of water and wastewater services through partnerships with Toronto and Peel Region is a key component of the Region's long-term servicing strategy. A number of projects in Toronto and Peel Region are currently underway to provide capacity to service growth in the Region. While these projects are essential to provide additional supply, delay in implementation of these works does not necessarily compromise our partners' abilities to meet their supply commitments under the Agreements with the Region, as their systems are robust enough to compensate for short-term delays. Regional staff conduct regular meetings with Toronto and Peel staff to discuss issues regarding supply commitments including project schedules.

5. FINANCIAL IMPLICATIONS

A summary of the costs of priority infrastructure projects is provided in Table 1. The total cost of infrastructure projects included in this update is \$1.99 billion.

Table 1
Cost Estimates for Key Infrastructure Projects

Project	Project Cost Estimates (\$)
Queensville Elevated Tank No. 1	7,800,000
Queensville/Holland Landing/Sharon YDSS Connection	70,100,000
King City Water Supply	24,600,000
Duffin Creek WPCP *	** 390,000,000
YDSS Flow Control *	4,000,000
Leslie St. Watermain (Wellington St. to Davis Dr.)	15,000,000
Richmond Hill 2nd pressure district nine Elevated Tank	10,500,000
Toronto East Water Supply	36,700,000
Southeast Collector *	546,000,000
Upper York Servicing Solutions	***500,000,000
West Richmond Hill Pumping Station	33,800,000
Duffin Creek WPCP Outfall	86,000,000
Duffin Creek WPCP Stage 1 and 2 Upgrades	****160,000,000
West Vaughan Sewage Servicing	107,800,000
Total	\$1,992,300,000

* Critical project: Delay on these projects will be monitored to ensure acceptable level of service and environmental protection.

** Durham share of \$91M and Federal/Provincial funding of \$93.4M not included.

*** Project cost updated since the 2010 budget based on Environmental Assessment

**** Durham share estimated at 20% not included.

6. LOCAL MUNICIPAL IMPACT

Staff continue to work closely with municipalities affected by the infrastructure program to minimize impacts on planned community growth

Priority projects reviewed in this report are crucial to providing timely servicing capacity to municipalities serviced by the YDSS and the York Water System. The capacity is necessary to meet growth expectations while maintaining a desirable level of environmental and public health protection.

Release of additional capacity as well as granting of approvals in each phase of the plan approval process is contingent on all of these projects being completed as planned. Projects are continually monitored to ensure that the risk of delay is minimized and

capacity will be available as planned. Staff will continue to work closely with the local municipalities affected by the infrastructure program to ensure impacts to planned community growth is minimized to the extent possible considering constraints created by these projects. Coordinated efforts with local municipalities continue on implementation of the inflow and infiltration reduction program to reduce extraneous flows to the YDSS and thereby increase system capacity.

7. CONCLUSION

This report provides Regional Council with a status of priority projects and their relationship to the timing of plan approvals. Projects identified in this report are essential to provide the additional capacity needed to service projected growth in the Region. Continuing to monitor these projects will ensure that capacity allocation and granting of planning approvals are synchronized with project schedules.

For more information on this report, please contact Daniel Kostopoulos, Director, Capital Planning and Delivery, Environmental Services at extension 5070.

The Senior Management Group has reviewed this report.

(The five attachments referred to in this clause are attached to this report.)



Environmental Services Capital Planning and Delivery Infrastructure Status

Daniel Kostopoulos
June 9, 2010

#2102865

Overview

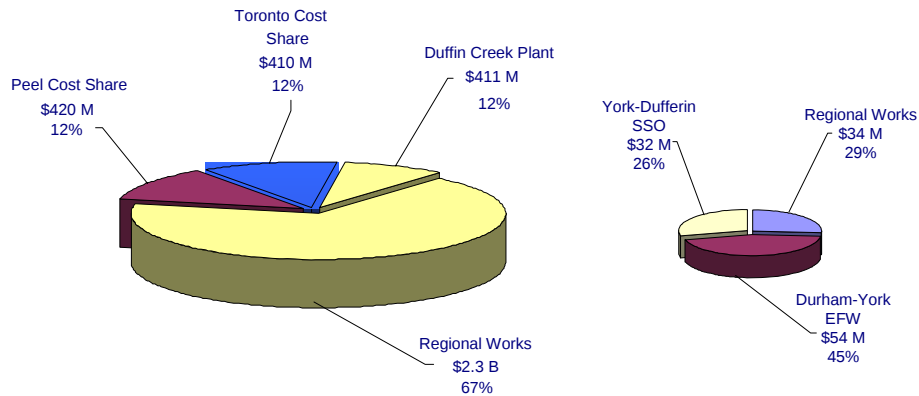
- ❑ What have we achieved in the last 6 months
- ❑ What will we achieve in the next 6 months
- ❑ Key Infrastructure Triggers
- ❑ Key W&Ww Projects
- ❑ Key Solid Waste Projects



Environmental Services Committee / June 9, 2010

Slide 2

2010 – 2019 Environmental Services Capital Plan



Water & Wastewater 2010 - 2019 Plan \$3.5 B
Solid Waste 2010 - 2019 Plan \$120 M



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Slide 3

What have we achieved in the last 6 months...

Achieved key milestones on 7 water projects:

- ✓ Completed Yonge Street watermain (between Jefferson Side road and Old Colony Road)
- ✓ Completed Schomberg Water Supply project
- ✓ Tendered Leslie Street watermain in Aurora/Newmarket
- ✓ Tendered King City elevated tank and watermain
- ✓ Tendered Bathurst St. watermain
- ✓ Started construction of Woodbine Avenue watermain project in Keswick
- ✓ Issued RFP for West Richmond Hill Pumping Station
- ✓ Awarded EA for Aurora East Water Storage Facility

Received key approvals and advanced wastewater projects:

- ✓ Commissioned the YDSS Flow Control Structures
- ✓ Received IEA Approval for Southeast Collector
- ✓ Received TOR Approval for UYSS
- ✓ Started construction of Joe Dales Pumping Station Upgrades and forcemain in Keswick
- ✓ Issued RFP for the West Vaughan Sewage Servicing

Continuing to expand solid waste infrastructure:

- ✓ Tendered Richmond Hill CEC
- ✓ Issued Design-Build-Operate RFP for York-Dufferin Source Separated Organics Processing Facility

Progress in all program areas in delivering aggressive capital plan



Environmental Services Committee / June 9, 2010

Slide 4

What we will achieve in the next 6 months...

Water

- ❑ Tender Kleinburg water supply works
- ❑ Tender Nobleton water supply works
- ❑ Start construction of Leslie Street watermain
- ❑ Commence EA for the West Richmond Hill Pumping Station
- ❑ Commence EA for the Aurora East Storage Facility

Wastewater

- ❑ Completion of Duffin Creek WPCP Stage 3 Expansion (liquid process)
- ❑ Tender Southeast Collector Tunnel Contract
- ❑ Tender the Holland Landing, Queensville and Sharon YDSS connection works
- ❑ Identify preferred alternative for UYSS
- ❑ Commence EA for West Vaughan Sewage Servicing

Solid Waste

- ❑ Start construction of Richmond Hill CEC
- ❑ Award the DBO Contract for York-Dufferin Source Separated Organics Processing Facility
- ❑ Start construction of Garfield Wright MRF Upgrades

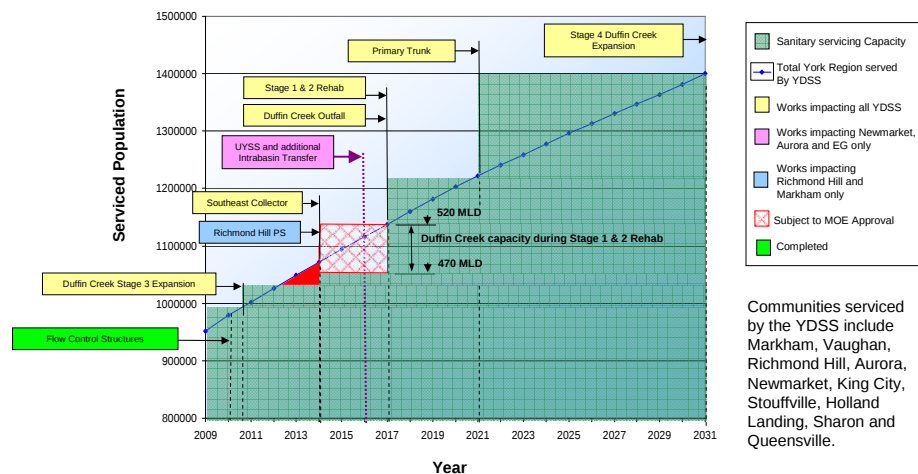
Over 50 construction contracts underway in 2010



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Slide 5

Key Infrastructure Capacity Triggers YDSS Serviced Area



Delivering critical projects to provide capacity for continued rapid growth



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Slide 6

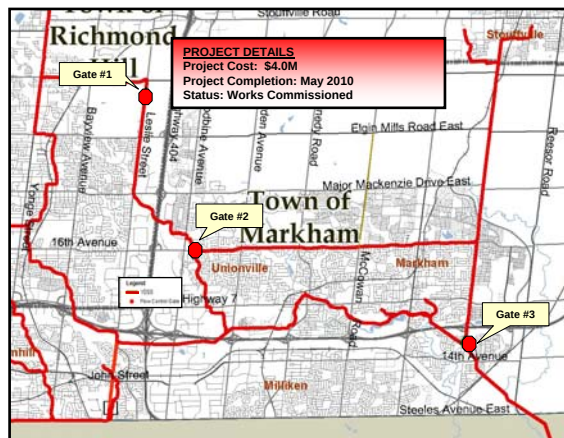
Key Water & Wastewater Capital Projects



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Slide 7

YDSS Flow Control Gates



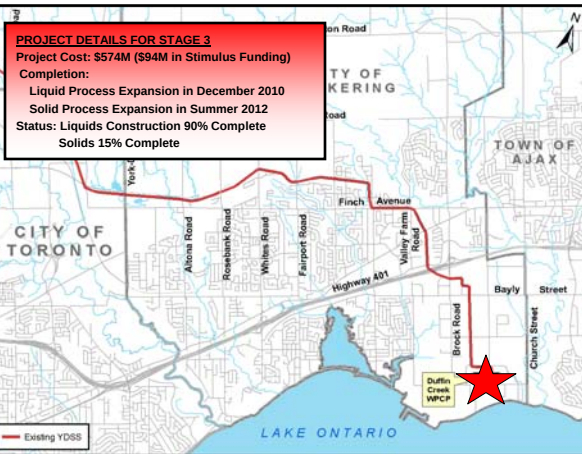
Effectively managing system risk until Southeast Collector commissioned



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Duffin Creek WPCP Stage 3 Expansion



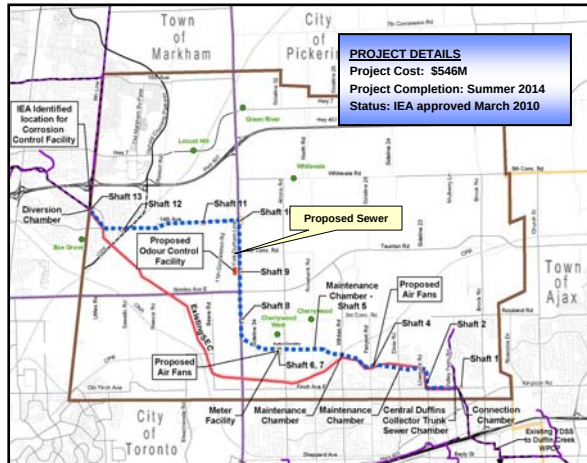
Stage 3 liquids expansion commissioned by end of 2010 accommodates 2011/2012/2013 allocation



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Slide 9

Southeast Collector Trunk Sewer



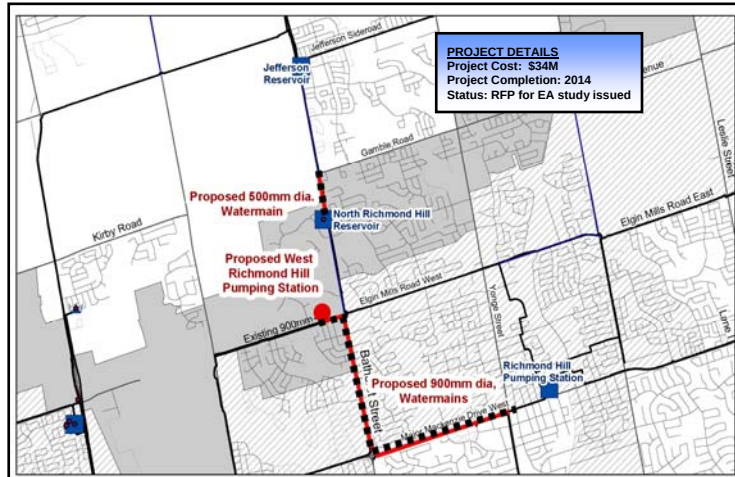
Moving forward with acquiring property, permits and finalizing tender documents



Environmental Services Committee / June 9, 2010

Slide 10

West Richmond Hill Pumping Station



PROJECT DETAILS
 Project Cost: \$34M
 Project Completion: 2014
 Status: RFP for EA study issued

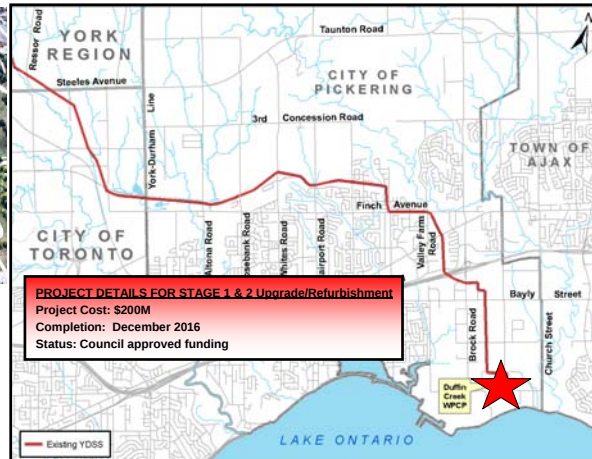
Consultant retained for Environmental Assessment study



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Slide 11

Duffin Creek WPCP Stage 1 & 2 Upgrades/Refurbishment



PROJECT DETAILS FOR STAGE 1 & 2 Upgrade/Refurbishment
 Project Cost: \$200M
 Completion: December 2016
 Status: Council approved funding

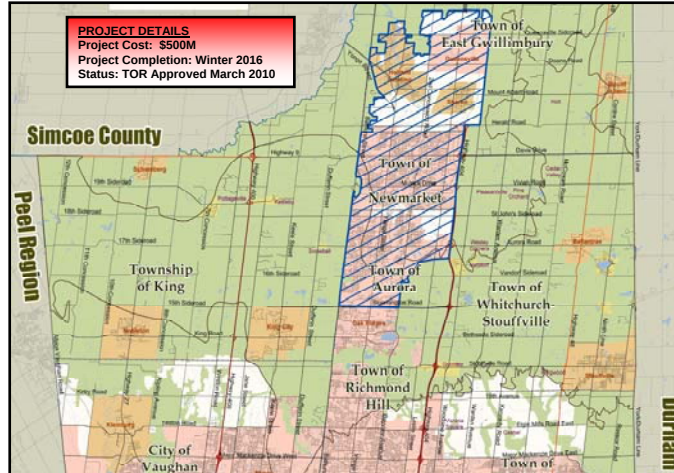
Existing stage 1 and 2 upgrades/refurbishment required for Stage 3 MOE Approvals



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Upper York Sewage Solutions



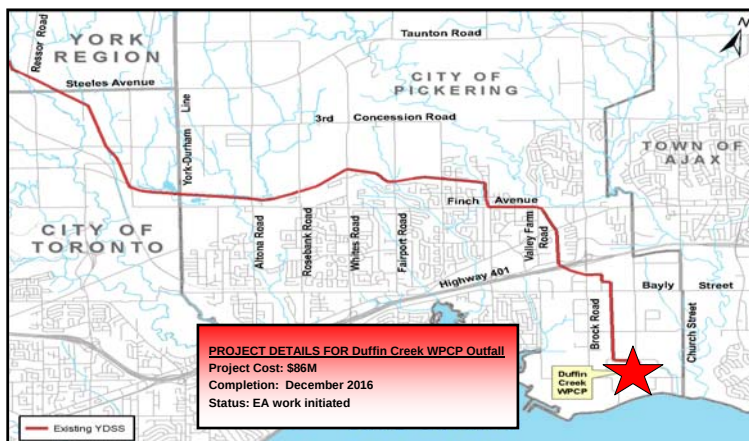
Moving forward with public consultation in June and recommended alternatives by Q4-2011



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Duffin Creek WPCP Outfall



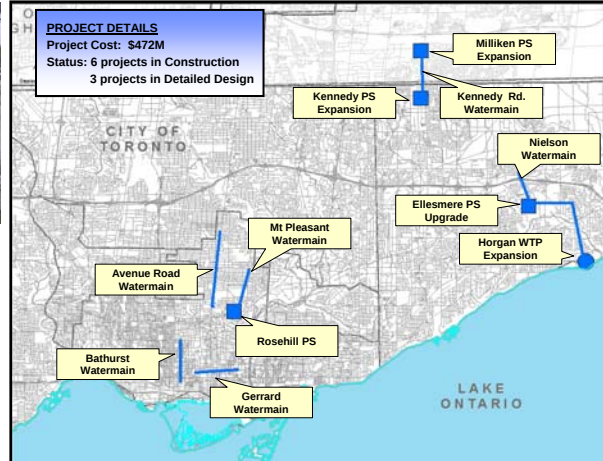
Duffin Creek WPCP Outfall is required to meet target growths beyond 2017



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Toronto Cost Shared Works



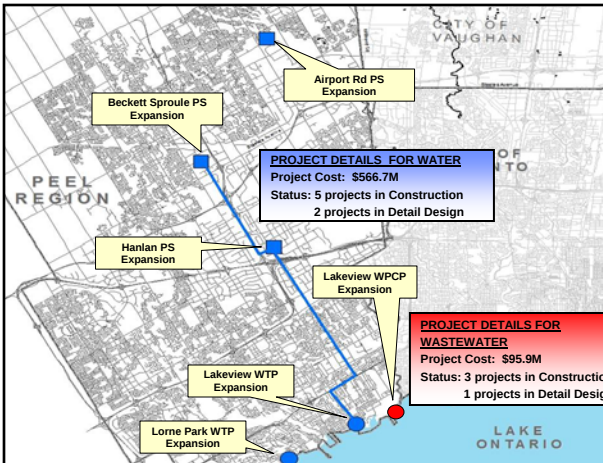
Nine active projects – delivery on track to meet required water servicing capacity



Environmental Services Committee / June 9, 2010

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Peel Cost Shared Works



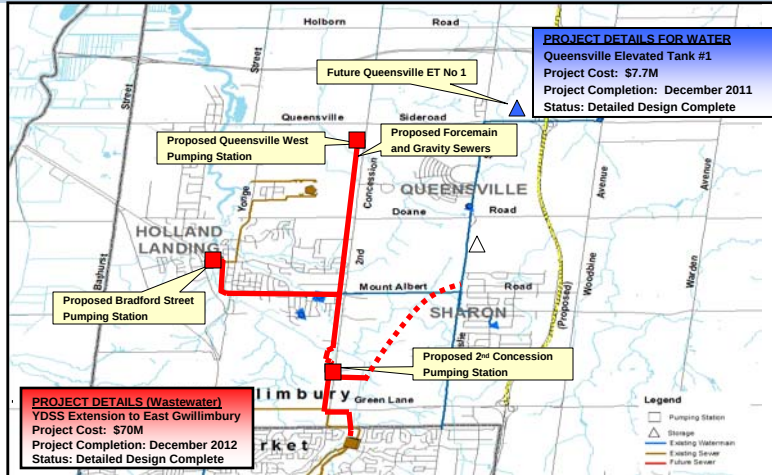
Seventeen active projects – delivery on track to meet required servicing capacity



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Holland Landing/ Queensville/Sharon Servicing



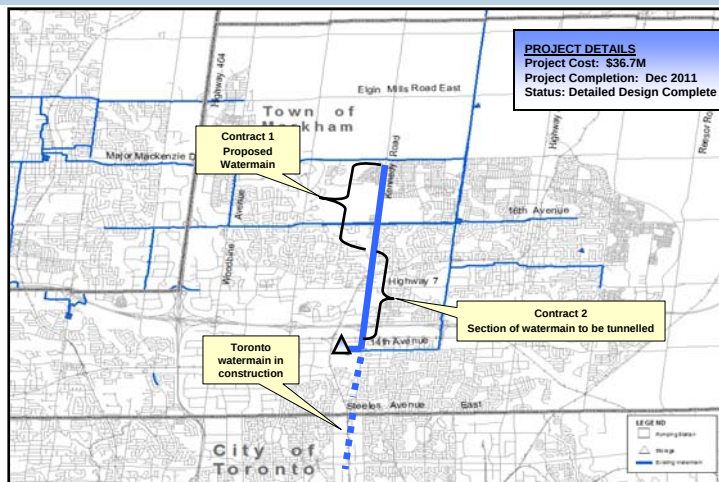
Prepaid Development Charge Credit Agreement executed, tender contract summer 2010



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Toronto East Water Supply (Markham)



Toronto East Water Supply expected to be complete by December 2011

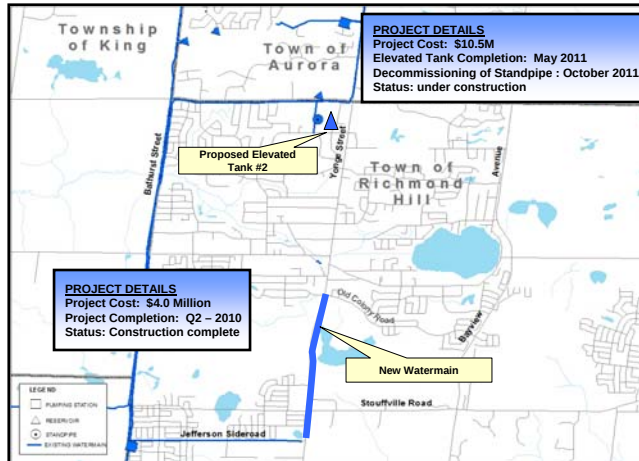


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Water Infrastructure

(Richmond Hill)



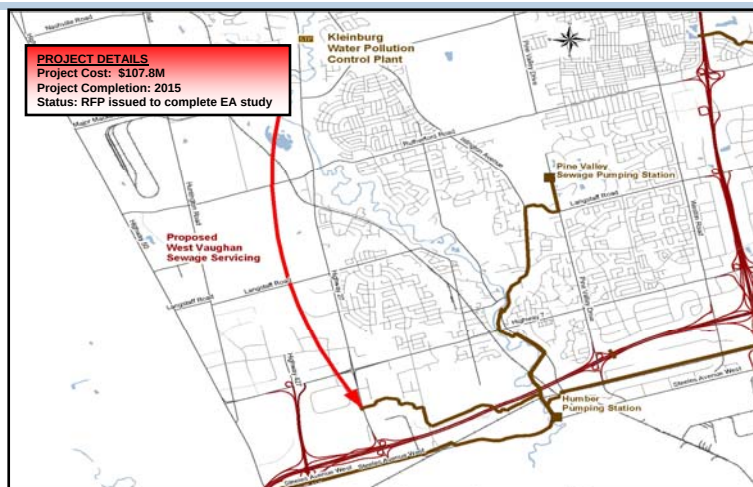
Elevated Tank on schedule for completion in May 2011



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West Vaughan Sewage Servicing



Environmental Assessment to commence in Q4 - 2010



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Leslie Street Watermain (Aurora/Newmarket)



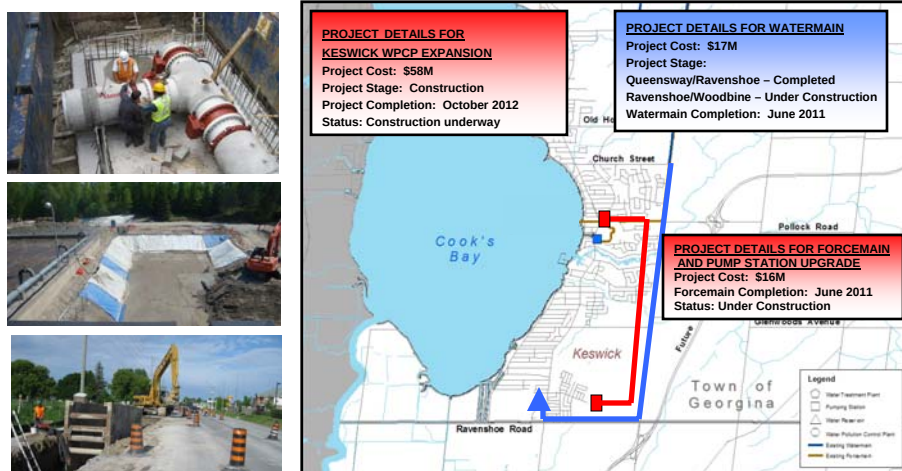
Contract 1 out to tender – tender closes June 22



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Keswick Servicing



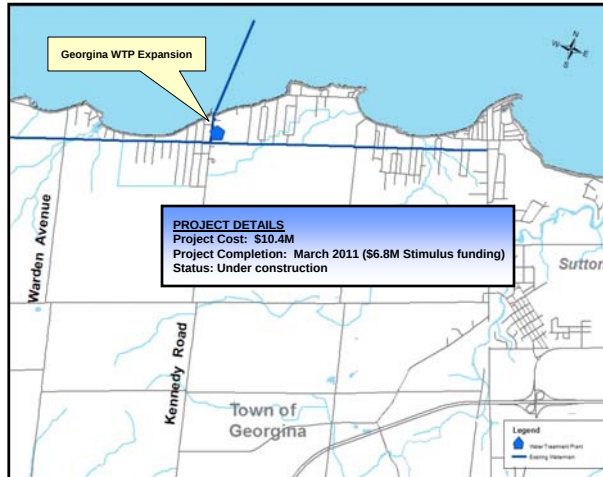
Moving forward with four projects in construction totalling \$94M



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Georgina WTP Expansion



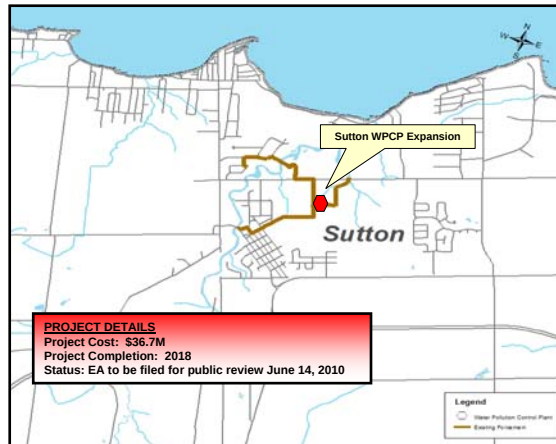
Construction on track for completion by March 2011



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Sutton WPCP Expansion



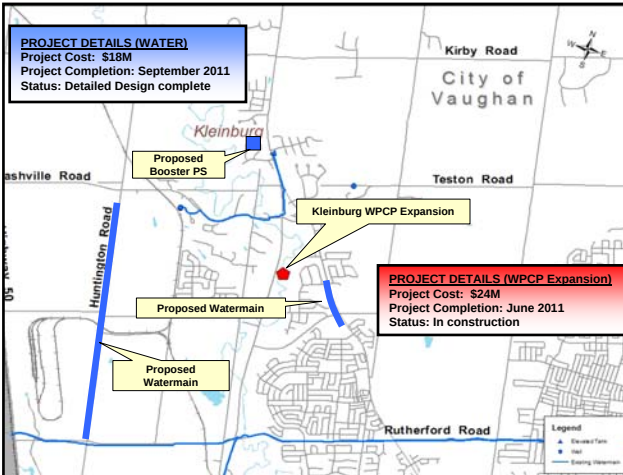
Environmental Assessment out for public review from June 14 to July 30



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Kleinburg Water and Wastewater Servicing



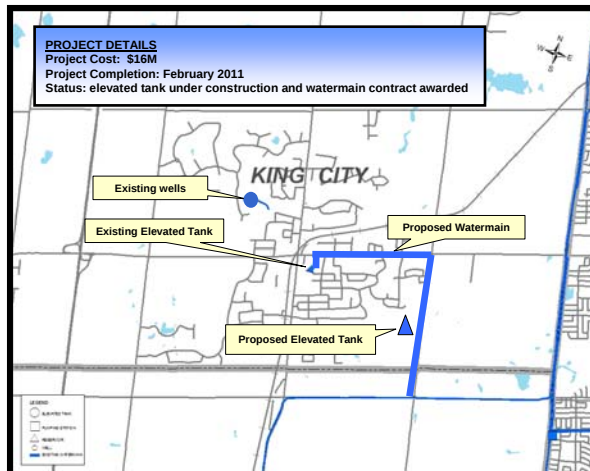
Booster station to be tendered in June and watermain in July 2010



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King City Water Supply



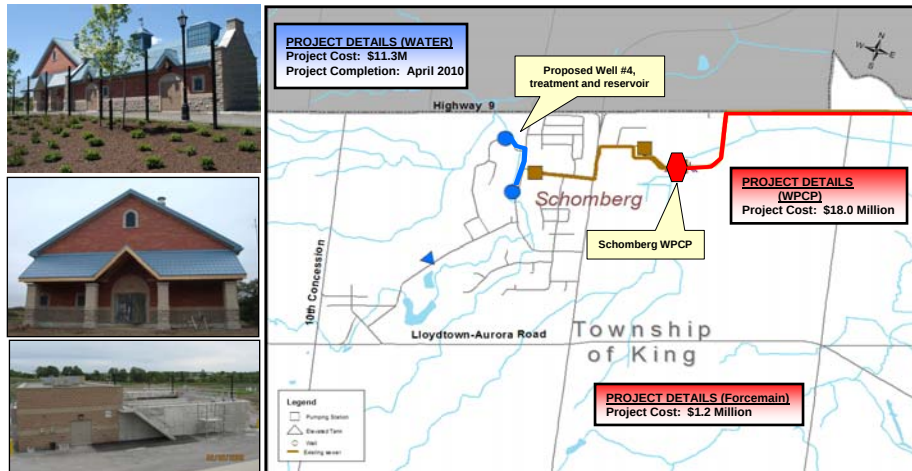
King City Water Supply scheduled for completion in Q1 - 2011



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Schomberg Servicing



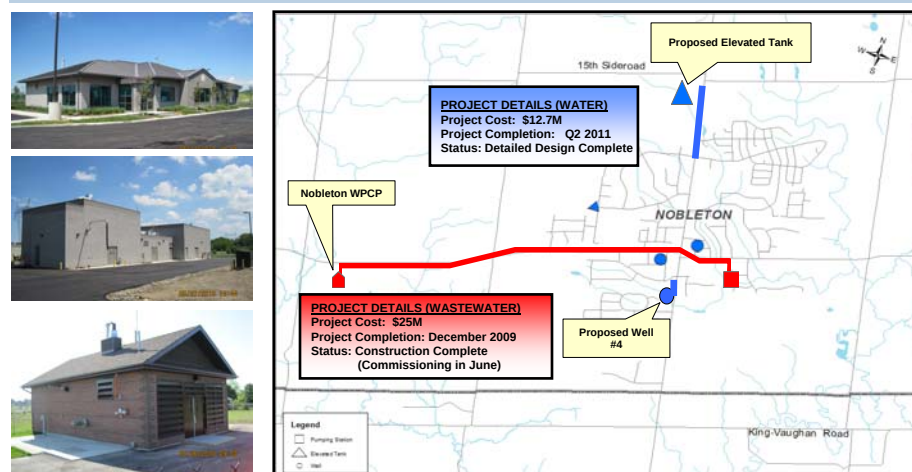
Construction completed - Official Opening Ceremony on June 28, 2010



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Nobleton Servicing



Elevated Tank tender closes on June 29; Well and Watermain tender in July 2010



Environmental Services Committee / June 9, 2010

Slide 28

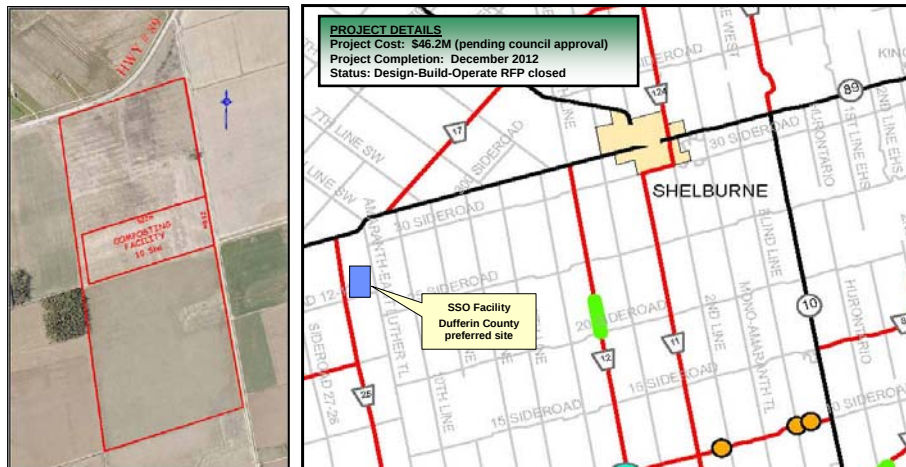
Solid Waste Projects



Environmental Services Committee / June 9, 2010

Slide 29

York-Dufferin Source Separated Organics Processing Facility



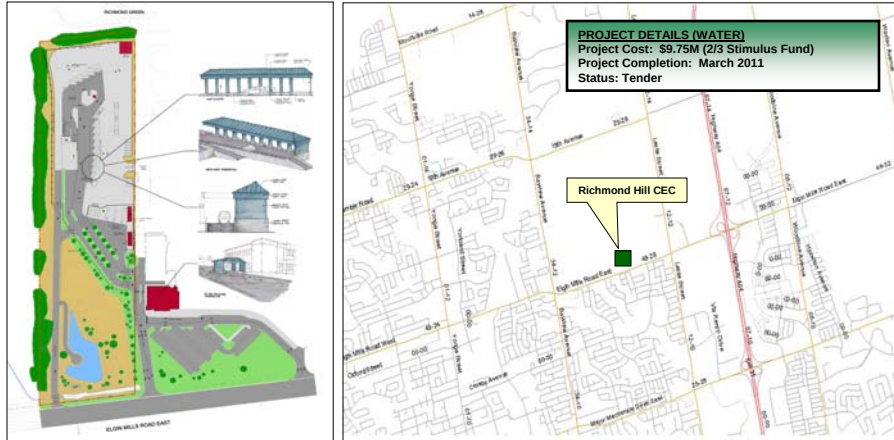
Design-Build-Operate RFP closed on June 4, 2010



Environmental Services Committee / June 9, 2010

Slide 30

Richmond Hill Community Environmental Centre (CEC)



Site plan application submitted and project tender to close on June 29th



Environmental Services Committee / June 9, 2010

Slide 31

Material Recovery Facility (MRF) Equipment Upgrades



Equipment Design-Build RFP released, on track for March 2011 completion



Environmental Services Committee / June 9, 2010

Slide 32

Questions

Servicing Requirements by Municipality / Status of Infrastructure Trigger Projects
to Service up to 970,000 People in the YDSS System
as of April 2010

Municipality	Project Name	Description	Current Status	Expected Completion Date	Anticipated Presales Timing	Anticipated Registration Timing
East Gwillimbury (for areas requiring YDSS connection)	• Queensville/Holland Landing/Sharon YDSS Connection	Provision of sanitary servicing through extension of the YDSS	Tender	Q4 – 2012 (last reported: end of 2011)	Q4 - 2011	Q2 - 2012
	• Queensville Elevated Tank No. 1	Construction of a 7.5 ML elevated tank	Detailed Design	Q4 - 2011 (last reported: end of 2011)		
Township of King	• King City Water Supply	King City connection to York Water System	Construction	Q1 – 2011 (last reported: Q4 - 2010)	Q2-2010	Q3-2010
	• King City Elevated Tank	Construction of a 2.74 ML elevated tank	Construction	Q1 - 2011 (last reported: Q4 - 2010)		

- 1) This data will be updated and submitted to Regional Council quarterly
2) Projects completed and removed from the table since last report: none

#1823005

Servicing Requirements by Municipality / Status of Infrastructure Trigger Projects

To Service Additional Population of 72,000 beyond the June 2005 Allocation served by the YDSS
(in addition to all existing servicing requirements as outlined in the June 23, 2005
Council Report for servicing 970,000 persons)

as of April 2010

Municipality	Project Name	Description	Current Status	Expected Completion Date	Anticipated Presales Timing	Anticipated Registration Timing
Aurora, East Gwillimbury, Markham, Newmarket, Richmond Hill, King Vaughan, Stouffville	• Duffin Creek WPCP	Expansion to increase plant capacity to 630 ML/day subject to completion of future outfall works	Construction	December 2010 (Liquid Process Expansion) (last reported: December 2010)	Permission for presales granted in December 2009 (Except E.G. and King where other infrastructure triggers are required, see Attachment 1)	Q2 – 2010
	• YDSS Flow Control	Attenuation of peak wastewater flows to allow additional capacity prior to completion of Southeast Collector Sewer	Completed			
Aurora, Newmarket (Aurora East pressure district only)	• Leslie/Wellington Street Watermain	Watermain from Aurora East pumping station on Wellington St. to Leslie St., just north of Mulock Drive	Tender	May 2011 (last reported: January 2011)	Permission for presales granted in December 2009	Q4 – 2010 (last reported: Q3 2010)
Richmond Hill (PD9 only)	• PD9 Elevated Tank No. 2	Elevated Tank in the Richmond Hill Pressure District 9 service area	Construction	May 2011 (last reported: May 2011)	Q2 – 2010	Q4 – 2010
East Gwillimbury	• Queensville/Holland Landing/Sharon YDSS connection	Provision of sanitary servicing through extension of the YDSS	Tender	Q4 - 2012 (last reported: end of 2011)	Q4 - 2011	Q2 - 2012
	• Queensville Elevated Tank No. 1	Construction of a 7.5 ML elevated tank	Detailed Design	Q4 - 2011 (last reported: End of 2011)		

1) This data will be updated and submitted to Regional Council quarterly

2) Projects completed and removed from the table since last report: none

#1823165

Servicing Requirements by Municipality / Status of Infrastructure Trigger Projects

To Service Additional Population of 36,328 beyond the December 2008

Allocation served by the YDSS

(in addition to all existing servicing requirements as outlined in the June 23, 2005, October 31, 2007 and
December 18, 2008 Council Reports for servicing 1,042,000 persons)

as of April 2010

Municipality	Project Name	Description	Current Status	Expected Completion Date	Anticipated Presales Timing	Anticipated Registration Timing
Aurora East Gwillimbury Markham Newmarket Richmond Hill King Vaughan Whitchurch- Stouffville	• Southeast Collector Sewer	Twinning of existing trunk sewer to provide additional conveyance capacity	Detailed Design	Mid 2014 (last reported: late 2013)	December 2011(last reported: December 2011)*	June 2012(last reported : June 2012)
	• Duffin Creek WPCP (Liquid Process Expansion)	Expansion to increase plant capacity to 630 ML/day subject to completion of future outfall works	Construction	December 2010 (last reported December 2010)		
	YDSS Flow Control Structures	Attenuation of peak wastewater flows to allow additional capacity prior to completion of Southeast Collector Sewer	Completed	Completed (last reported May 2010)		
Vaughan (Woodbridge Service Area served by Humber P.S) (up to 3,500 persons)	• Duffin Creek WPCP (Liquid Process Expansion)	see above	Construction	December 2010 (last reported December 2010)	Q4- 2009	Q2 – 2010
	YDSS Flow Control Structures	see above	Completed	May 2010 (last reported May 2010)		

*2013 capacity assignment also subject to: local municipalities' allocations to individual developments conditional upon approval of Southeast Collector Sewer IEA and local municipalities implement Inflow and Infiltration Reduction Program

#1823225

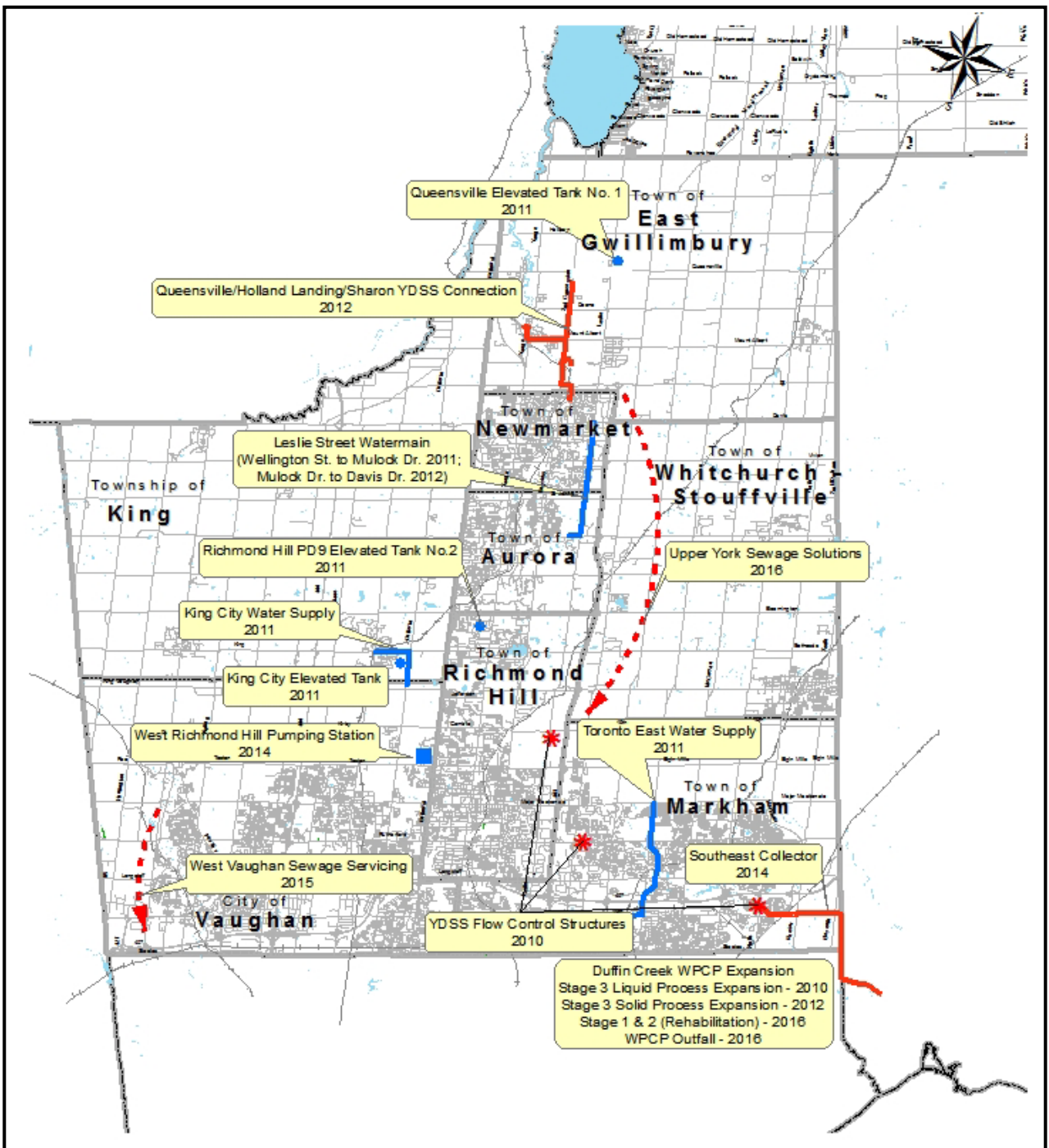
Status of Other Key Infrastructure Projects

as of April 2010

Project Name	Description	Current Status	Expected Project Completion Date
Duffin Creek Stages 1 and 2 Upgrades	Upgrade and refurbish existing Stages 1 and 2	Detailed Design	Q4 - 2016
Duffin Creek Water Pollution Control Plant Outfall	New outfall to address diffusion requirements and increase plant capacity to 630MLD	EA	Q4-2016
Upper York Sewage Solutions	Sanitary servicing solution to accommodate growth in Holland Landing, Queensville, Sharon and parts of Aurora and Newmarket	Individual Environmental Assessment. Terms of Reference (TOR) approved	Q4 - 2016
Toronto East Water Supply	Watermain along Kennedy Road from Milliken Pumping Station to Major Mackenzie Drive	Tender	Q4 2011 (last reported: Q2 2011)
West Richmond Hill Pumping Station	New pumping station near Bathurst Street and Elgin Mills Road to service Pressure District 8.	EA	2014
West Vaughan Sewage Servicing	Sanitary servicing solution to accommodate growth in West Vaughan area	Request for Proposal	2015

1) Projects added to the table since last report: West Vaughan Sewage Servicing

#1823306



LOCATION PLAN

Key Infrastructure Projects

Water and Wastewater Infrastructure Status Report

0 3 6 12 Kilometers

— Priority Water Projects & Expected Completion Date

— Priority Wastewater Projects & Expected Completion Date

Environmental Services

