

Town of Richmond Hill

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June 7, 2011

Denis Kelly, Regional Clerk
The Regional Municipality of York
Office of the Regional Clerk
17250 Yonge Street, 4th Floor
Newmarket, Ontario
L3Y 6Z1

Dear Mr. Kelly:

Re: Region of York's Inflow and Infiltration Reduction Strategy and Long Term Water Conservation Strategy – (SRPRS.11.048)

Richmond Hill Town Council, at its meeting on March 28, 2011 approved the following resolution with respect to the Region of York's Inflow and Infiltration Reduction Strategy and Long Term Water Conservation Strategy:

"That Council endorse in principle, the Region of York's Inflow and Infiltration Reduction Strategy and Long Term Water Conservation Strategy, subject to minor adjustments to the final drafts arising out of the pre-submission consultation with the Ministry of the Environment."

Enclosed is a copy of the staff report (SRPRS.11.048) prepared by the Town's Planning and Regulatory Services Department.

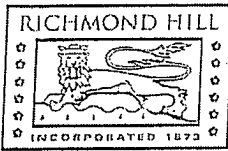
If you have any questions or require further information regarding this matter, please contact Ana Bassios, Commissioner of Planning and Regulatory Services, at 905-771-2417.

Sincerely,


Donna L. McLarty
Town Clerk

cc: A. Bassios, Commissioner of Planning and Regulatory Services
E. Zawadowsky, Director of Development Engineering





TOWN OF RICHMOND HILL

COMMITTEE OF THE WHOLE

March 21, 2011

SRPRS.11.048

Planning and Regulatory Services Department
Development Engineering Division

**SUBJECT: REGION OF YORK'S INFLOW AND INFILTRATION REDUCTION
STRATEGY AND LONG TERM WATER CONSERVATION STRATEGY
(SRPRS.11.048)**

PURPOSE

To propose endorsement in principle, of the Regional strategy to reduce inflow and infiltration to the sanitary sewer system and the long term conservation and efficiency of drinking water supply.

RECOMMENDATION

That Council endorse in principle, the Region of York's Inflow and Infiltration Reduction Strategy and Long Term Water Conservation Strategy, subject to minor adjustments to the final drafts arising out of the pre-submission consultation with the Ministry of the Environment.

Contact: Eugene Zawadowsky, Director of Development Engineering @ Extension 3510

Submitted by:

Ana Bassios

Commissioner of Planning & Regulatory Services

Approved by:

M. Joan Anderton

Chief Administrative Officer

BACKGROUND INFORMATION

Since 1997, the Region has been working to improve the efficiency of the York Durham Sewage System. In particular, potable water conservation and flow reduction have been identified as significant design considerations.

In February 2008, the Inflow and Infiltration Reduction Program began as a cooperative effort with the Region and the nine local municipalities. Approximately 25% of the entire wastewater system was monitored through 121 flow monitoring locations. A total of 77 locations were identified as having inflow and infiltration. Twenty-six locations were prioritized for detailed inspection. Specific defects were identified that could be targeted for remediation pilot projects.

As sewers deteriorate with age, infiltration increases and sewer capacity is consumed. This extra volume of water can overload the sewers causing back-ups. Raw sewage overflows can also occur during storm events posing risks to public health and the environment. Additional costs are incurred to convey and treat these extraneous flows.

The Southeast Collector Trunk Sewer Individual Environmental Assessment contains a detailed evaluation of the effectiveness of water conservation and inflow and infiltration reduction measures across several municipalities. An instantaneous peak flow reduction of 10% within the Southeast Collector during a 25 year storm event was established as the required target. Preliminary assessment indicates that the Long Term Water Conservation Strategy will contribute 40%-50% of the overall reduction required, leaving approximately 41 megalitres per day targeted for inflow and infiltration reduction.

The Strategy, developed in conjunction with staff from all local municipalities details a program spanning over twenty years, comprising:

- (a) investigating and mitigating inflow and infiltration sources;
- (b) condition assessment programs to identify system deficiencies;
- (c) bylaw enforcement for sewer inspections to reduce inflow and infiltration from private property;
- (d) communication and education programs; and
- (e) continued industry communication and outreach to build strong program and construction standards.

FINANCIAL/STAFFING/OTHER IMPLICATIONS

Over the past ten years, the Town has budgeted approximately one million dollars annually on maintenance of the sanitary sewer system and this would be expected to continue to support this strategy.

RELATIONSHIP TO THE STRATEGIC PLAN

The recommendations of this report address the goal of Wise Management of Resources by working towards a more efficient sewer and water supply system in the Region.

CONCLUSION

York Region and the local municipalities will share responsibility to define and implement the requisite activities necessary to ensure that the Strategy is continually maintained and updated. This process will commence in April 2011. In addition to the first report that will be delivered to the Minister on March 31, 2011, the Region is required to update the Strategy, to the satisfaction of the Regional Director, at least once every five years until the Strategy is finalized or until otherwise directed by the Ministry of the Environment. Endorsement of the Strategy is a key requirement of the Individual Environmental Assessment of the Southeast Collector Sewer. This sewer is needed to provide further sewage allocation post 2013.