

## Stormwater Management Remedial Strategy Study— Town of Aurora



Client:  
**Town of Aurora**  
(2005—07)

XCG completed a Stormwater Management Remedial Strategy Study for the Town of Aurora. The study was completed to develop a stormwater management remedial plan that would result in improved stormwater runoff in the Town and ultimately result in improved water quality in area watercourses and the East Holland River. The study was completed in two stages.

In stage 1, existing wet ponds were examined to determine if each facility had sufficient permanent pool and extended duration volume to satisfy the design requirements. Sediment build up was examined through the completion of a comprehensive field survey and sediment sampling program. The program included measurement of current sediment levels in each pond and sampling sediments in each pond to assess the quality of the materials. Based on the results, recommendations were made on the frequency of required sediment removal and disposal options for the dredged materials.

Stage 2 of the study focused on the development of a long term stormwater management remedial strategy designed to reduce pollutant loadings into area receiving waters and ultimately into the East Holland River. The strategy was developed using the hierarchy of source, conveyance and end of pipe controls. Existing water quantity control ponds were surveyed to confirm existing storage volumes and an outfall survey was completed. The outfall survey identified dry weather discharges and outfalls with deficiencies such as debris build up. Stormwater management opportunities were examined at each outfall location to develop a strategy that would address uncontrolled discharges.

The study concluded with recommendations for the implementation of a source controls program, additional maintenance activities to address stormwater deficiencies, 22 new wet ponds within existing developed areas, and oil grit separators in 65 currently uncontrolled areas of the Town where wet ponds were found to be infeasible.

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