

## Toronto Wet Weather Flow Management Master Plan



Client:  
**City of Toronto, Ontario**

In the fall of 2000, the City of Toronto embarked upon an ambitious City-wide planning study that addressed wet weather issues ranging from stormwater management to inflow/infiltration control to combined sewer overflow abatement. For purposes of the study, the City was divided into five watershed areas, including the combined sewer service area.

XCG Consultants, in association with ESG International, was selected to prepare the Humber River watershed component of the plan. The Humber River is a Canadian Heritage River and is a critical water resource in the western portion of the City.

Master Plan preparation involved a wide spectrum of activities. The technical work included the development of a comprehensive GIS database, a watershed wide HSPF model fully representing the surface flow, groundwater flow and water quality, detailed aquatic and riparian surveys, as well as extensive geomorphic assessment and modeling. A critical component of the plan was consulting with a broad range of stakeholders. In this regard, XCG played a lead role in assisting the City in working with a diverse Steering Committee made up of environmental groups, city staff, and technical agencies. Consultation with the broader public occurred through a series of workshops.

The study also involved the development of targets, objectives, and strategies. A detailed review of existing conditions was undertaken to assist in the development of specific targets and objectives for aquatic communities, water quality and quantity, natural areas and wildlife, and the sewer system. A total of five strategies were developed to meet moderate and enhanced targets. A detailed evaluation of strategies followed to assess the ability of each strategy to meet the moderate and enhanced targets and objectives. A preferred strategy was selected based on its ability to meet the enhanced targets and objectives. A detailed implementation plan developed to guide the execution of the strategy. The Wet Weather Flow Management Master Plan provides the City with a blueprint for future wet weather flow management, as well as the regeneration of critical valley and stream habitats.

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