

Stormwater Management (SWM) Pond Retrofit Studies

Client: Town of Aurora

Year: 2004 - 2005



SERVICES PROVIDED

In 2004-2005, CCTA completed two SWM pond retrofit studies for the Town of Aurora, following the Schedule B planning process of the Municipal Class Environmental Assessment. We evaluated the function of the existing SWM ponds with regard to water quality and quantity control, assessed improvement options and recommended upgrades to meet current Lake Simcoe Region Conservation Authority and MOE SWM guidelines and regulations.

CCTA, with the assistance of Envision-Tatham, Landscape Architects, completed the retrofit final design drawings and landscape plans for the two SWM ponds. Key design modifications included converting the two dry ponds into wetlands, the addition of forebays, and outlet structure improvements. The modifications provided sufficient permanent pool volumes and pond drawdown times to achieve the desired level of treatment while maintaining the required water quantity control for the contributing drainage area. The designs were constructed in 2005 and the outcome encompasses aesthetically pleasing green space upgrades that provide the requisite stormwater controls to provincial standards.

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