

Day One - Track One

Wednesday, March 22nd, 2017

11:00 a.m. – 11:30 a.m.

The Queensway Sustainable Sidewalk Pilot Project

Presenters: Patrick Cheung and Rod Anderton, City of Toronto

Biographies



Patrick Cheung is a senior engineer in the Policy and Program Development unit of Toronto Water. He has over 30 years of experience in the design, contract administration and project management of municipal watermain, sewers and roads. Patrick has also contributed to the development of the Greening Surface Parking Lots Guidelines, up-date to the Toronto Green Standards and is currently co-leading the development of Toronto's Green Streets Technical Guidelines.



Rod Anderton is a Supervisor with the Stormwater Management Unit of Toronto Water. He is a member of the City of Toronto's stream restoration team responsible aquatic habitat improvement and stream valley infrastructure protection. Rod is a Freshwater Biologist with 27 years of experience related to water quality monitoring, spill response, erosion and sediment control, environmental enforcement, stream restoration, and stormwater management. He also contributes to projects and studies related to the City's Wet Weather Flow Master Plan, including Low Impact Development and Green initiatives

Abstract

Located in the lower watershed of Mimico Creek within the City of Toronto, the Queensway Project collects, retains, and filters stormwater runoff underneath the sidewalk prior to discharging controlled flows into the storm sewer system. Street trees planted within the system also benefit from superior soil, nutrient, and moisture conditions.

Mr. Cheung will give a background of the project, the partnership between divisions that made the project possible and the co-benefits derived from this concept that can revolutionize the design of the urban landscape. He will also discuss the project design details, adjustments made and current status.

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Rod Anderton will provide a brief on the monitoring system installed, issues with monitoring, the current status, testing protocols developed and share encouraging results to date and preliminary conclusions.

Mr. Cheung will conclude with description of related restoration pilot project, technical lessons learned and further studies required to evolve this concept to a practice.

Learning Objectives

1. The co-benefits that results when group with slightly different objectives work together;
2. Lesson learned in setting up field monitoring, the effort, logistics, sampling and cost associated with the monitoring; and
3. Pro and cons that relate to the application soil cell technology to treat stormwater.