

Day One - Track One

Wednesday, March 21st, 2018

3:00 p.m. – 3:30 p.m.

Bioretention Systems Standards for Sustainable Stormwater Management

Presenter: Lynn Barber, Canadian Standards Association

Biography



Lynn Barber is project manager for the Canadian Standards Association (CSA). Her primary role is to support subject matter experts with accredited Canadian and International development processes. With over 20 years' experience, Ms. Barber has worked in the Natural Resource Sector in the areas of hydrocarbon exploration and development, nature conservation, site-level wastewater treatment and sustainable water management.

Abstract

Climate change adaptation is changing the landscape of stormwater management in Canada and the United States. In response, the National Research Council of Canada is working with the Canadian Standards Association (CSA) by funding several standards projects that will support climate change adaptation. In 2017, CSA established a Technical Committee, Green Infrastructure for Stormwater Management, of subject matter experts. This committee is overseeing the development of two new Canada-wide, consensus-based standards for the Design and Construction of Bioretention Systems. Examples of other stormwater Low Impact Development (LID) standards already developed will be provided however the focus of the presentation is on the standards under development. Specifically, the presentation will touch on the major components of each standard. The Design standard includes topics such as; site planning; cold climate suitability, design considerations and plant specifications. The Construction standard includes topics such as contracts, construction considerations and sequencing, materials and materials handling; civil considerations, landscape considerations and risk management. How the application of these standards can help with stormwater management challenges will be demonstrated. Finally, the challenges and opportunities identified by the Committee will be summarized and needs for future work will be highlighted.

Learning Objectives

1. Understanding of the importance of the Technical Committee to this standards development, consensus-based process and how it results in a nationally accredited standard;
2. Understand major components being developed in both the Design and Construction of Bioretention Systems standards; and
3. Understand some of the challenges in developing a national standard in a subject area that is typically site-level based.