Designing for the Coastal Plain, What Manufactured Treatment Devices (MTDs) Can Do For You

Thursday, September 3, 2020

Via GoTo Meeting

https://attendee.gotowebinar.com/register/1757863315300587533

1:00 PM – 3 PM

Program

12:45 – 1:00 Log-in, chat, become familiar with GoToMeeting

1:00 – 1:25 Improving MTD Standards and Evaluation Policies

Jacob Dorman, Contech ES

The VA BMP Clearinghouse currently lists over 40 manufactured treatment devices (MTDs) for use in complying with VA stormwater management requirements. However, being listed does not mean all MTDs are equal. A MTD's expected pollutant removal performance is only as good as the evaluation method used. Why is adhering to a particular protocol important in the first place? This session will: 1) Review the importance of the nationally recognized laboratory and field evaluation protocols deployed in New Jersey and Washington State and the role they will play in the development of a national verification program; 2) Examine the Virginia Department of Environmental Quality's implementation of Guidance Memorandum 14-2009, which established a statewide MTD evaluation policy beginning in 2014; and 3) Discuss how House Bill 882, introduced in the 2020 General Assembly and effective July 1, 2020, is expected to affect the evaluation of MTDs moving forward.

1:25 – 2:15 Designing MTDs for Long-term Success

Mike Barbachem, WRA,
Tim Stromberg, S-GA,
Yuya Ishizuka, Contech ES

Proper sizing matters when it comes to deploying stormwater best management practices. Undersizing BMPs can lead to performance and longevity issues, such as premature bypass of the design storm and increased maintenance frequencies, which can negatively affect local water quality. To help properly size MTDs, the Virginia Department of Environmental Quality has established guidance to convert the required treatment volume to a peak flow rate. Do you know where to find the information necessary to verify this flow rate is not exceeded as required? Additionally, selecting the right BMP for site conditions in the Coastal Plain isn't always simple. There are numerous site constraints, such as tight buildable footprints and, often, high groundwater, that limit the available BMP toolbox and make MTDs a more attractive solution than other BMPs. This moderated panel session will provide design perspectives from a local design engineer(s) and Contech's own design engineering team to inform the BMP selection process and seeks to improve the communication between localities and the design and MTD community to better align overall performance and maintenance expectations.

2:15 – 2:20 Break

2:20 – 2:50 Maintenance Matters: Considerations to improve MTD longevity

Dean Baddorf, Contech ES

All BMPs require maintenance. In light of environmental challenges, like increased flooding and more intense, frequently occurring storms, which directly affect communities within Hampton Roads, the need for improving BMP maintenance procedures and policies is critically important. This session will discuss general maintenance considerations specific to MTD removal processes and operation. Additionally, participants will develop a better understanding for why Contech tailors their inspection and maintenance procedures and schedules to ensure long-term performance can be achieved.

2:50 – 3:00 Questions and Wrap-up

Purpose Statement

The intent of this training seminar is to provide stormwater program managers, site plan reviewers, and stormwater design engineers with a better understanding of the history of manufactured treatment device (MTDs) use in Virginia and improve how this much needed best management practice (BMP) is utilized and maintained to ensure water quality compliance goals are met. The seminar will provide attendees with specific information related to MTD performance verification/certification protocols and future changes to VA DEQ's evaluation process, guidance on improving MTD siting and utilization for Hampton Roads, and additional considerations needed to ensure long-term maintenance of these practices. Upon completion of this seminar, attendees should have greater appreciation of the need for improved MTD evaluations and a better understanding of how to appropriately deploy and maintain MTDs within their communities.

Professional Development Hours will be available for this event. Each participant is expected to verify if the hours apply to their specific specialty.