

## DNREC Sediment & Stormwater Listserve Update: August 2021

### This month's topics:

1. **UPDATE: DURMM v2.51.210802 Available for Download**
2. **CCR Recertification 2021**
3. **Contractor Training Program (Blue Card) Now Available Online and On Demand**
4. **Submittal Procedures for Plan Review and Approval**
5. **Fall Seeding Window Fast Approaching**
6. **Link of the Month: Bioretention Performance Research in Pacific Northwest**

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### 1. **UPDATE: DURMM v2.51.210802 Available for Download**

A bug in the Delaware Urban Runoff Management Model (DURMM) was recently reported by a user. Certain combinations of Hydrologic Soil Group (HSG) and impervious cover could result in runoff reduction credit being calculated for non-infiltrating practices. The source of the bug was determined to be a rounding issue in some of the equations used on the RPv sheet. The bug has been fixed by adding a rounding function to those equation results and DURMM has been updated to v2.51.210802. Designers should download the latest version and begin using it for all projects submitted for review and approval under the 2019 Delaware Sediment & Stormwater Regulations (DSSR). The link is provided below:

[https://documents.dnrec.delaware.gov/swc/Drainage/Documents/Sediment%20and%20Stormwater%20Program/2019%20February/DURMM\\_v2.51\\_210802.xlsm](https://documents.dnrec.delaware.gov/swc/Drainage/Documents/Sediment%20and%20Stormwater%20Program/2019%20February/DURMM_v2.51_210802.xlsm)

((NOTE: It may be necessary to clear your browser cache by clicking the "F5" key if the older version is downloaded from this link.))

### 2. **CCR Recertification 2021**

CCR Recertification is for those CCRs whose certification has expired or will expire in the current year and would like to continue their certification. This eight-hour course highlights any changes in the Sediment and Stormwater Program and Regulations, along with newer approaches to stormwater management. The 2021 CCR Recertification will consist of two 4-hour online webinar sessions using the Cisco Webex platform, held on **Thursday, October 7, 2021 and Thursday, October 14, 2021** from 8 a.m. until noon each day. Eligible individuals will be notified by DNREC's Division of Watershed Stewardship with a registration packet in late August 2021. Eligible individuals must register for the course.

If you are a CCR in need of recertification and DNREC Sediment & Stormwater Program does not have a valid email address on file for you, please email your full name, CCR number, and valid email address to [DNREC.Stormwater@delaware.gov](mailto:DNREC.Stormwater@delaware.gov), so that we can update our records to provide registration information through email.

### 3. **Contractor Training Program (Blue Card) Now Available Online and On Demand**

The Sediment and Stormwater Program has converted its Contractor Training Program to an on-line, on demand offering. Links to the training and registration information are located at

<https://de.gov/ssptraining>

In accordance with subsection §6.2.3 of the Delaware Sediment and Stormwater Regulations, certification as Responsible Personnel is valid until the Department notifies the individual that additional training is required due to a change in course content. The regulations were revised with an effective date of February 11, 2019, and the Contractor Training Program content has been updated accordingly in addition to transitioning to the online, on demand format.

**\*\*Notice will be published informing Responsible Personnel certified prior to February 2019 that recertification is required and must be completed by December 31, 2021. \*\***

#### **4. Submittal Procedures for Plan Review and Approval**

Effective July 1, 2021, all initial digital submittals for plan review and approval by the DNREC Sediment & Stormwater Program should be sent to the main program email address rather than an individual staff member:

[DNREC.Stormwater@delaware.gov](mailto:DNREC.Stormwater@delaware.gov)

Once a responsible staff member has been assigned to the project additional guidance will be provided for future submissions.

#### **5. Fall Seeding Window Fast Approaching**

Those familiar with the seasons in the Mid-Atlantic Region know that the optimal time for getting vegetative stabilization established is the September 1 through October 31 time frame. The approved Sediment & Stormwater Plan shows the seed mix(es) that were recommended for the project. It is also recommended that soil testing be conducted to determine the need for any soil amendments. Project owners and contractors should plan now for taking advantage of this period, which is fast approaching.

#### **6. Link of the Month: Bioretention Performance Research in Pacific Northwest**

A group of researchers collaborating as the Washington Stormwater Center have released a study that was primarily intended to look at the effects that plants and fungi have on the performance of bioretention facilities. The biosoil media was the standard mix used in Washington State, consisting of 40% compost, which is significantly higher than the 10% compost mix used in Delaware. Nonetheless, the study is noteworthy in that the researchers also looked into the effects that compaction of the media has on performance. While placing the media with less compaction improved hydrologic performance, it was detrimental to plant growth. Conversely, increasing the bulk density through varying degrees of compaction improved plant growth, but was detrimental to the hydrologic performance. The study results have implications for the proper construction of bioretention facilities. Blowing the biosoil in using a one-step process may not be as desirable as a multi-step process with intermittent wetting when trying to strike the proper balance between hydrologic performance and plant vigor. The full study can be downloaded from the following link:

[\(PDF\) Engineering Analysis of Plant and Fungal Contributions to Bioretention Performance \(researchgate.net\)](#)