



Monroe County Soil & Water  
Conservation District

## 2017 Western New York Stormwater Management Training Series



All classes will be held at:

Monroe Community College (Brighton Campus)  
1000 East Henrietta Road  
Rochester, NY 14623  
Class Room 209 (Empire Room) in Building 3.

Registrants must park in Lot M between Center Road and Sports Road on the Brighton Campus. Refer to the MCC Campus Map on at:

<http://www.monroecc.edu/about-mcc/locations-maps/brighton-campus/>

Sign-in for all classes will be between 8:00-8:30 AM

An online or hard copy registration form must be received by our office at least 1 week prior to the class date in order to register for this class. Registration forms can be found on our website: <http://www.monroecountyswcd.org/>. Mail or deliver a check for the workshop fee to the address at the bottom of this page.

Classes will be one full day from 8:30 AM-4:00 PM

Lunch and refreshments will be provided during the training

Registrants are encouraged to bring laptops and calculators. Please review materials to bring in the full course descriptions listed below. Online or hard copies of The New York State Standards and Specifications for Erosion and Sediment Control “The Blue Book”(Updated 2016) and the 2015 New York State Stormwater Management Design Manual may be encouraged for some classes. Online copies can be downloaded below:

“The Blue Book 2016”- [http://www.dec.ny.gov/docs/water\\_pdf/2016nysstanec.pdf](http://www.dec.ny.gov/docs/water_pdf/2016nysstanec.pdf)  
2015 Design Manual- [http://www.dec.ny.gov/docs/water\\_pdf/swdm2015entire.pdf](http://www.dec.ny.gov/docs/water_pdf/swdm2015entire.pdf)

### **Course Principal Instructor: John Dunkle P.E., CPESC, CPMSM**

John has been a practicing civil engineer since 1981, and is a Certified Professional in Erosion and Sediment Control (CPESC), and a Certified Professional in Municipal Stormwater Management (CPMSM). John has prepared and reviewed Stormwater Pollution Prevention Plans (SWPPPs), provided guidance for Municipal Separate Storm Sewer Systems (MS4s), and participated with DEC in the development of the current stormwater regulations. John also teaches a graduate level Stormwater Management class at SUNY-Environmental Science & Forestry, and has been conducting stormwater trainings across New York State for over 12 years.

### **WHO SHOULD ATTEND**

- Consulting/municipal design engineers
- Code Enforcement Officers
- Municipal planning board members
- Land use planners/developers • Stormwater professionals • Teachers
- Municipal staff • Landscape Architects

### **WORKSHOP FEES**

- \$230 per session
- \$100 per session for members of the Stormwater Coalition of Monroe County.
- A 10% discount will be given to any individual registrant that attends all five core courses.

Checks can be made Payable to MCSWCD and can be mailed or delivered to:

Monroe County Soil and Water Conservation District  
145 Paul Road, Building #5  
Rochester, NY 1462

# **Full Course Descriptions**

## **When it Rains - Stormwater Hydrology (2/1/2017)**

Predicting the volume and rate of runoff from rain events is an essential skill for stormwater engineers. This class will examine in detail all of the factors that influence runoff: precipitation, soils, ground cover, drainage area and time of concentration. Using TR-55 technology, and the latest soil and precipitation data, participants will compute runoff for various pre- and post-development conditions by hand, and then by using a computer model. Determining detention storage volumes and modeling of reservoirs and outlet structures will also be addressed.

## **Maintenance and the new MS4 Permit (3/1/2017)**

Recently, DEC released two draft documents that affect MS4s and their Stormwater Management Programs.

1. The DRAFT MS4 General Permit is being revised for a new five year term beginning in 2017. The new permit, as currently proposed, introduces new compliance challenges and obligations. Public comments on the Draft permit are being reviewed by DEC.
2. A much needed draft Maintenance Chapter for the Stormwater Management Design Manual has been published for comment. The Maintenance Chapter provides MS4s with detailed assessment and remediation techniques for complying with MCM5.

This class will review these new documents in detail and provide guidance for professional consultants and municipal officials involved in MS4 programs.

While the MS4 permit modifications are still a work in progress, DEC personnel will share a status report on the modifications under consideration, as well as a summary of the public comments received on the draft document, and the impact that EPA's Remand Rule may have on the MS4 permit. There will be plenty of time for questions, clarifications, and comments. We'll discuss compliance strategies for some of the potential new permit requirements including establishing priorities in your minimum control measures, developing a pollutant specific SWMP, addressing impaired waters and taking your IDDE program to the next level.

During the review of the maintenance chapter, specific inspection, assessment, trouble-shooting, and remediation measures will be identified for each category of stormwater management practice. Maintenance costs and agreements will also be discussed.

## **All in a ROW - Stormwater Design for Linear Projects (3/29/2017)**

Linear projects, such as highways and utilities, present unique challenges for managing stormwater due to their length and space restrictions for installing BMPs. This class, co-taught with Ellen Hahn Kubek of NYSDOT, will review the stormwater management techniques and practices that are most suitable for application in these conditions. Class exercises will include preparation of E&SC plans, hydrology analysis, and the design of post construction practices on various linear type projects, including streetscaping retrofits. Applicability of the construction general permit requirements for linear projects will also be reviewed.

## **Constructed Wetlands for Stormwater Management (5/3/2017)**

Wetlands may be one of the most ecologically diverse eco-systems on earth. Not only do they support a wide variety of flora and fauna, they also function extremely well as natural stormwater management systems. It is no wonder that constructed wetlands are employed as stormwater management practices. However, creating a functional and viable wetland is not easy. This class, co-taught with Tim Toland, RLA, will review the critical elements and important design considerations of constructed wetlands, including the proper selection and installation of plant materials. Class exercises will include locating, sizing, and developing stormwater wetland planting plans for specific project sites.

## **The New Blue II - Stormwater E&SC and the New Design Manual (6/7/2017)**

Back by popular demand, Don Lake returns to share in more detail the familiar and new E&SC practices for Runoff Management, Soil Stabilization, and Sediment Control that are defined in the 2016 edition of the Blue Book that he has authored. Class exercises will include site assessment and planning for various types of development sites, as well as the development of E&SC plans and construction sequences. A virtual site construction inspection will also be a part of the class, as will design examples for some of the more complex practices.

**Questions? Contact our Office  
(585)753-7380**

**Email: [joshlafountain@monroecounty.gov](mailto:joshlafountain@monroecounty.gov)**

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