

Agenda

Presented by Gary R. Brown

Law and Regulations

- 7. Del. C. Ch. 40 erosion and sedimentation control
- 5101 sediment and stormwater regulations

Applications

- Application for detailed plan approval
- Applications for standard plan approval

Regulatory Guidance Documents

- Delaware erosion and sediment control handbook
- Erosion and sediment control handbook details
- Post-construction stormwater BMP standards and specifications A-1 updated
- Standard guidelines for operation and maintenance of stormwater BMPs

Training and Certification Information

- Sediment and stormwater program training
- Designer training
- Contractor training program (blue card)
- Certified construction reviewer (CCR)
- CCR recertification

NPDES Construction Permits

- List of notices of intent
- 9 DE Reg 1250 Part 2 - special conditions for storm water discharges associated with construction activities
- eNOI - construction stormwater general permit
- Example weekly self-review form

Plan Review Resources

- Step 1: stormwater assessment study (SAS) checklist
- Stormwater assessment study GIS web app
- Some layers from the SAS GIS web app are available for download from first Map Delaware
- Step 2: preliminary sediment & stormwater management plan review checklist
- Step 3: sediment & stormwater plan review checklist
- Step 2/3: sediment & stormwater plan review checklist
- Soil investigation report submittal checklist NEW

Engineering Resources

- Delaware urban runoff management model (DURMM) v2.51 excel spreadsheet
- RPv summary table
- Pond code 378 for urban stormwater management ponds
- Delaware regulatory rainfall amounts
- DNREC approved stormwater management structures
- DNREC approved software for hydrologic & hydraulic modeling
- Approved biosoil suppliers (prior to biosoil-14)
- Approved biosoil-14 suppliers
- Stormwater watershed reports

Construction Review Resources

- Post-construction stormwater BMP construction review checklists
- Post-construction verification documentation (PCVD) requirements for stormwater BMPs
- CCR application
- Construction site review report (Word Doc)
- Example CCR report

Maintenance Resources

- Standard guidelines for operation and maintenance of stormwater BMPs
- Stormwater facility maintenance contractor listing

Stormwater Basins & Underground Systems

Wilmington, DE - Friday, January 24, 2020



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Learning Objectives

You'll be able to:

Comply with stormwater management statutes in Delaware, and with Section 5101 of the Delaware Administrative Code, which regulates stormwater systems.

Use the Delaware erosion and sediment control handbook to include appropriate stormwater best management practices in stormwater system designs.

Comply with training requirements for stormwater program designers, contractors and certified construction reviewers.

Comply with the requirements of the NPDES construction permit.

Prepare for construction review using post-construction stormwater BMP construction review checklists.



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Delaware Sediment and Stormwater Management

Wilmington, DE - Friday, January 24, 2020



Understand law and regulations associated with Delaware sediment and stormwater management

Identify applications for both detailed and standard plan approval

Examine regulatory guidance documents

Learn about training for designers and contractors, and learn about construction reviewer certification

Explore the stormwater assessment study (SAS) checklist

Discuss standard guidelines for operation and maintenance of stormwater BMPs

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW CEHs
6.5 AIA LU|HSW

Landscape Architects

6.5 HSW CEUs
6.5 LA CES HSW PDHs

Floodplain Managers

6.5 ASFPM CECS

Contractors

Non-Credit Continuing Ed.



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Faculty

Gary R. Brown *President of RT Environmental Services, Inc.*

Mr. Brown is president of RT Environmental Services, Inc., an environmental services firm located in King of Prussia, Pennsylvania. He is a professional engineer (P.E.) in 20 states, and he has been practicing environmental engineering in Pennsylvania and New Jersey since 1973. He is also a qualified environmental professional (Q.E.P) with over 30 years of diversified engineering experience, including 22 years of engineering management experience. Mr. Brown has worked in the waste management industry and designed stormwater facilities since 1978. He has completed expert work on state and federal court cases as well.

Seminar Information

Doubletree Hotel Wilmington 4727 Concord Pike Wilmington, DE 19803 (302) 478-6000	Registration 8:00 - 8:30 am Morning Session 8:30 - 11:45 am	Lunch (On your own) 11:45 am - 1:00 pm Afternoon Session 1:00 - 4:45 pm
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Tuition
\$289 for individual registration
\$269 for three or more simultaneous registrations.

Included with your registration:
Complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!
Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Additional Learning

Webinar Series

Current Issues in Sustainable Site Design

- **Focus on Sustainability: Light Pollution Reduction**
Tues., Dec. 17, 2019, 11:00 AM - 12:00 PM CST
- **Key Concepts in Ecology for Site Design**
Tues., Dec. 17, 2019, 12:15 - 1:15 PM CST
- **Applying Ecological Concepts to Landscape Architecture and Site Design**
Tues., Dec. 17, 2019, 1:30 - 3:30 PM CST
- **Population Biology, Habitats and Successional Planning**
Wed., Dec. 18, 2019, 11:00 AM - 12:00 PM CST
- **Designing Stormwater Facilities for Functionand Performance with Maintenance in Mind**
Wed., Dec. 18, 2019, 12:30 - 2:30 PM CST

Seismic Design of Buildings

- **Part I**
Wed., Dec. 18, 2019, 11:00 AM - 3:30 PM CST
- **Part II**
Thurs., Dec. 19, 2019, 11:00 AM - 3:30 PM CST

Environmental Treatment Technologies for Municipal and Industrial Wastes

- **Waste Categories – Municipal and Industrial**
Fri., Dec. 20, 2019, 8:30 - 11:00 AM CST
- **Overview of Waste Treatment Process**
Fri., Dec. 20, 2019, 12:00 - 1:00 PM CST
- **Treatment Technologies for Hazardous and Municipal Waste**
Fri., Dec. 20, 2019, 1:15 - 2:45 PM CST
- **Detail Scope, Applicability and Efficacy of Available Technologies**
Fri., Dec. 20, 2019, 3:00 - 5:00 PM CST

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Continuing Education Credit Information
This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects licensed in Delaware. Educators and courses are not subject to preapproval in Delaware.

This course offers 6.5 HSW CEUs to Delaware landscape architects. Activities approved by the Landscape Architecture Continuing Education Systems are deemed approved in Delaware. This course is approved by the LA CES for 6.5 HSW PDHs.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU|HSW (Sponsor No. J885). Only full attendance is reportable to the AIA/CES. Visit www.halfmoonseminars.org for complete AIA/CES information under this course listing.

The Association of State Floodplain Managers has approved this event for 6.5 CECs.
This seminar offers a continuing education opportunity to contractors. It has not been approved by any state contractor licensing board for mandatory continuing education credit.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Registration

Delaware Sediment and Stormwater Management

Wilmington, DE - Friday, January 24, 2020

How to Register	
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
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Complete the entire form. Attach duplicates if necessary.	
Registrant Information Name: _____ Company/Firm: _____ Address: _____ City:_____State: _____ Zip_____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.	

Tuition () I will be attending the live seminar. Single Registrant - \$289.00 . Three or more registrants from the same company registering at the same time - \$269.00 each. () I am not attending. Please send me the self-study package: ☐ Downloadable MP3 Audio/PDF Manual for \$269.00 . ☐ CD/Manual Package for \$289.00 . ☐ USB/Manual Package \$289.00 . (S&H included. Please allow five weeks from seminar date for delivery)
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Credit Card: <i>Mastercard, Visa, American Express, or Discover</i> Credit Card Number: _____ Expiration Date: _____ CVV2 Code: _____ Cardholder Name: _____ Billing Address: _____ City:_____ State:_____ Zip: _____ Signature: _____ Email: _____