

Agenda

Presented by Mr. Daryl Norris

Understanding Stormwater Permit Requirements and Procedures

- Background and development of national and state regulations and permit requirements
- Activities exempt from construction general stormwater permit requirements

Complying with NPDES and North Carolina Department of Environmental Quality Regulations

- Notice of intent requirements
- Special conditions for sensitive waters
- Review and permitting process
- Implementing, monitoring and assessing SWPPPs

Developing Stormwater Pollution Prevention Plans (SWPPP)

- Including required elements
- Assessing building sites
- Choosing best management practices (BMPs)
- Planning for required inspection, maintenance and recordkeeping
- Obtaining plan certification
- Implementing SWPPPs

Choosing Appropriate Storm Water Best Management Practices (BMPs)

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|--|------------------------------------|
| Stormwater management planning | |
| Sizing criteria | |
| Minimum Design Criteria | |
| Green infrastructure practices | |
| Preservation of natural features and conservation design | |
| Reducing impervious cover | |
| Green management techniques | |
| Conservation of natural areas | Riparian buffers and filter strips |
| Vegetated swales | Disconnected runoff |
| Stream daylighting | Rain gardens |
| Green roofs | Stormwater planters |
| Rain barrels/cisterns | Porous pavement |
| Proprietary practices | |

Developing Plans for Inspection, Monitoring, Maintenance and Recordkeeping

- Understanding the science and terminology of stormwater management and monitoring
- Implementing monitoring plans
- Reviewing stormwater BMP case studies

Stormwater Management 2018
Norfolk, VA - Monday, July 30, 2018



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Learning Objectives

You'll be able to:

- Determine** when a stormwater permit is necessary and comply with stormwater permit requirements and procedures.
- Describe** the elements to be included in stormwater pollution prevention plans (SWPPP).
- Comply** with NPDES and North Carolina Department of Environmental Quality Regulations.
- Choose** appropriate stormwater best management practices (BMPs).
- Understand** the science and terminology of stormwater management and monitoring.



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|---|---|
| Understand stormwater permit requirements and procedures | Review stormwater best management practices |
| Identify special conditions for sensitive waters | Learn about developing plans for inspection, monitoring, maintenance and recordkeeping |
| Examine stormwater pollution prevention plans | |

Continuing Education Credits

- | | |
|--|---|
| Professional Engineers
7.0 Continuing Ed. Hours | Floodplain Managers
7.0 ASFPM CECs |
| Architects
7.0 Continuing Ed. Hours (HSW)
7.0 AIA HSW Learning Units | Contractors
Non-Credit Continuing Ed. |
| Landscape Architects
7.0 Continuing Ed. Hours (HSW)
7.0 LA CES HSW PDHs | |



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Faculty

Daryl Norris *Civil Engineer, City of Greenville, NC*

Mr. Norris is a civil engineer for the City of Greenville, North Carolina, specializing in stormwater engineering, and he is the owner of Norris Environmental Engineering, PLLC. He is a professional engineer, a certified floodplain manager, a certified professional in storm water quality, and a certified professional in low impact development. Prior to working for the City of Greenville, Mr. Norris worked with the North Carolina Wildlife Resources Commission and the North Carolina Division of Water Quality. He was also the environmental specialist and floodplain administrator for the City of Wilson. He holds a bachelor’s degree in Fish and Wildlife Management and a master’s degree in Biological and Agricultural Engineering, both from North Carolina State University. Mr. Norris is the president of the Stormwater Association of North Carolina and volunteers his time as president/point man of Trail Life of Eastern North Carolina, a non-profit organization.

Seminar Information

Doubletree by Hilton
1500 North Military Highway
Norfolk, VA 23502
(757) 466-8000

Tuition
\$279 for individual registration
\$259 for three or more simultaneous registrations.
Each registration includes a complementary 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 (CDT), 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 CD/manual package. You may also send another person to take your place.

Additional Learning

Webinar Series

Introduction to Vibrations

- **Introduction to Vibrations**
Thurs., June 14, 2018, 11:00 AM - 1:00 PM CDT
- **Eigenvalues, Eigenvectors and Motion**
Thurs., June 14, 2018, 1:30 - 3:00 PM CDT
- **Analysis and Test Methods**
Fri., June 15, 2018, 11:00 AM - 12:30 PM CDT
- **Designing for Vibration and Failure Analysis**
Fri., June 15, 2018, 1:00 - 2:30 PM CDT

Pedestrians and Bicycle Transport Planning

- **Introduction to Current Conditions and Trends in Biking and Walking**
Thurs., June 21, 2018, 11:00 AM - 12:30 PM CDT
- **Engineering and Infrastructure: Design for Walkability and Bikeability**
Thurs., June 21, 2018, 1:00 - 2:30 PM CDT
- **Developing a Walking and Biking Plan, Part I**
Fri., June 22, 2018, 11:00 AM - 12:30 PM CDT
- **Developing a Walking and Biking Plan, Part II**
Fri., June 22, 2018, 1:00 - 2:30 PM CDT

Structural Forensic Engineering

- **Introduction to the forensic Engineering Process**
Thurs., June 28, 2018, 11:00 AM - 1:00 PM CDT
- **Causes and Failures and the Forensic Engineering Report**
Thurs., June 28, 2018, 1:30 - 3:30 PM CDT
- **Forensic Examination of Structures and Use in Litigation**
Fri., June 29, 2018, 11:00 AM - 1:00 PM CDT

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development Part 1**
Thurs., July 5, 2018, 11:00 AM - 2:15 PM CDT
- **Solar Photovoltaic Project Design and Development Part 2**
Fri., July 6, 2018, 11:00 AM - 2:15 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and offers up to 7.0 continuing education hours to engineers, architects and landscape architects (HSW) in Virginia. Educators and courses are not subject to preapproval in Virginia.

This event has been approved by the American Institute of Architects Continuing Education System for 7.0 HSW Learning Units (Sponsor No. J885) and by the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Full attendance is required for course attendance reporting to AIA/CES and LA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects and landscape architects.

The Association of State Floodplain Managers has approved this event for 7.0 CECs.

This course offers a non-credit continuing education opportunity to contraction contractors. It has not been preapproved in any state with contractor continuing education requirements.

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

Can’t Attend? Order the CD/Manual Package:
An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

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How to Register		Registrant Information	
Online: www.halfmoonseminars.org		Name: _____	
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Phone: 715-835-5900		Occupation: _____	
		Email: _____	
		Phone: _____	
Fax: 715-835-6066		Additional Registrants:	
		Name: _____	
		Occupation: _____	
		Email: _____	
		Phone: _____	
		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 - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

() **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____

Expiration Date: _____ CVV2 Code: _____

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