

Agenda

Understanding Stormwater Permit Requirements and Procedures

Rex Robbins

Why permit stormwater?
Background and development of national and state regulations and permit requirements
Types of stormwater permits (construction, municipal, industrial)
General permits vs individual permits
Activities exempt from construction general construction stormwater permit requirements
Complying with NPDES and State regulations (TN, MS and AR)
Notice of intent requirements
Special conditions for sensitive waters
Review and permitting process
Implementing, monitoring and assessing SWPPPs

Understanding and Applying the Science of Stormwater

Rex Robbins

Hydrology, soil science and drainage
Water chemistry
Classifying storm events
Identifying consequences of storm events
Stormwater modeling

Developing Stormwater Pollution Prevention Plans (SWPPP)

AJ Wyatt

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

Sustainable Sites Initiative

AJ Wyatt

What is SITES v2 (Sustainable Sites Initiative)?
Identify the compatible and reinforcing elements of SITES v2 related to site water resource management
Identify the potential credits within SITES v2
Documentation of water management strategies to streamline applications
Strategies for SITES v2 (Inc) innovation in design credit regarding site water management
Review of benefits of integrating and collaborating through the SITES process

Choosing Appropriate Stormwater Best Management Practices (BMPs)

Brandon Walsh

Stormwater management planning
Sizing 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

Brandon Walsh

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

Stormwater Management 2018

Memphis, TN - Wednesday, February 21, 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).

Understand and apply the science of stormwater.

Choose appropriate stormwater best management practices (BMPs), such as vegetated swales, rain gardens and porous pavement.

Explore the Sustainable Sites Initiative and SITES water resource management credits.

Examine the science of stormwater management and monitoring.



Stormwater Management 2018

Memphis, TN - Wednesday, February 21, 2018



Understand stormwater permit requirements and procedures

Identify consequences of storm events

Examine stormwater pollution prevention plans

Review stormwater best management practices

Learn about developing plans for inspection, monitoring, maintenance and recordkeeping

Continuing Education Credits

Professional Engineers

7.5 HSW PDHs

Architects

7.5 HSW PDHs

7.5 AIA HSW Learning Units

Landscape Architects

7.5 HSW PDHs

7.5 LA CES HSW PDHs

Floodplain Managers

7.5 ASFPM CECs

Contractors

Non-Credit Continuing Ed.



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Rex Robbins
Professional Engineer at FTN Associates in Little Rock
Mr. Robbins is a licensed professional engineer in Arkansas, Mississippi, Missouri, and Oklahoma. He has a master’s degree in Environmental Engineering from Purdue University and over 40 years of experience as an environmental engineer. Mr. Robbins has developed stormwater pollution prevention plans and designed structures to improve the quality of stormwater discharges. He has worked with several industrial facilities to resolve issues around achieving stormwater discharge limitations and benchmarks. He has taught graduate level college courses on waste management. Mr. Robbins currently serves as senior project manager for FTN Associates Ltd. in Little Rock.

Alan J Wyatt
Sustainable Site Consultant in Bartlett
Mr. Wyatt is a registered landscape architect and founding principal of Alan J. Wyatt, RLA, ASLA, LEED-AP, of Bartlett, Tennessee. His professional experience has included project management, planning and design, and construction administration of facilities for public and private clientele throughout the United States in landscape architecture, planning, urban planning/design, and sustainable/resilient

Seminar Information

Crowne Plaza Downtown
300 North 2nd Street
Memphis, TN 38105
(901) 525-1800

Tuition
\$279 for individual registration
\$259 for three or more registrations.

Each registration includes a 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 CD/manual package. You may also send another person to take your place.



design as well as other practice areas. Mr. Wyatt has led and managed the planning and design, project management, implementation, and construction administration and management of over 3500 projects, from residential gardens to new ‘smart-growth’ communities, including commercial/retail, urban mixed-use, residential, neighborhood redevelopment, parks, greenways, trails, streetscapes, leisure and recreational venues, sport facilities, healthcare, education and campus master planning, institutional, transportation, historical and cultural sites, streetscapes, land-use planning, community master planning, urban stormwater management, sustainable site master planning, sustainable/resilient environments and other project types. Mr. Wyatt has given presentations to professional organizations, civic groups, and the University of Memphis Civil Engineering Graduate Department on innovative “green infrastructure” stormwater management techniques, water sensitive urban design, green infrastructure and sustainable sites and landscapes. He continues to share his passion for sustainable community issues through presentations to local educational groups, sharing his experience and knowledge through local media and his involvement on current community issues with local stakeholder groups. Mr. Wyatt’s commitment to the

Continuing Education Credit Information

This seminar is open to the public and offers 7.5 HSW PDHs/continuing education hours to Tennessee engineers, architects, and landscape architects. Educators and courses are not subject to pre-approval in Tennessee.

This event has been approved by the American Institute of Architects for 7.5 HSW Learning Units (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 7.5 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES.

Engineers, architects, and landscape architects seeking continuing education credit in other states will be able to apply the hours earned at this seminar, in most cases. Refer to specific state rules to determine eligibility.

The Association of State Floodplain Managers has approved this activity for 7.5 CECs.

This seminar offers a non-credit continuing education opportunity to contractors. It has not been submitted to any state contractor licensing board for course approval.

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.

profession and the local community has included service as president of Tennessee Chapter of the American Society of Landscape Architects, and as president of the West Tennessee Chapter of the Urban Forestry Council, as well as on the local board of the United States Green Building Council.

Brandon Walsh
Environmental Compliance Manager, The Greater Nashville Area
Mr. Walsh is a certified professional in stormwater quality and a certified professional in industrial stormwater management. He graduated Middle Tennessee State University in 2004 with a Bachelor of Science degree in Environmental Science and Technology with dual concentrations in Site Analysis and Water Resource Management. This included an educational background of primarily Biology and Chemistry with Geology, Soil Science, Mathematics, and other related subjects. Mr. Walsh worked as an environmental consultant in the scrap metal and auto recycling industry for nine years. He is currently an environmental compliance manager in the auto recycling industry. In the last 13 years he has worked on hundreds of stormwater permitting projects, including BMP design and maintenance, records keeping, sampling, and regulation compliance.

Additional Learning

Webinar Series

The Distributed Battery Webinar Series

- **The Distributed Battery Webinar, Part I**
Thurs., Dec. 28, 2017, 11:00 AM - 2:15 PM CST
- **The Distributed Battery Webinar, Part II**
Fri., Dec. 29, 2017, 11:00 AM - 2:15 PM CST

Technical Writing

- **Technical Writing Basics**
Tues., Jan. 9, 2018, 11:00 AM - 1:00 PM CST
- **Planning Documents**
Tues., Jan. 9, 2018, 1:30 - 3:30 PM CST
- **Writing Documents**
Wed., Jan. 10, 2018, 11:00 AM - 1:00 PM CST
- **Revising and Editing Documents**
Wed., Jan. 10, 2018, 1:30 - 3:30 PM CST

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

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

Stormwater Management 2018
Memphis, TN - Wednesday, February 21, 2018

How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
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Complete the entire form. Attach duplicates if necessary.		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.

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