

Agenda

Presented by Doug Moseley, III

**Understanding and Applying the Rationale
for Stormwater Management in Virginia**

- Hydrologic cycle
- Broader history of stormwater management in Virginia
- Regulatory priorities and permitting
- Runoff reduction

**Understanding Stormwater Requirements and Procedures:
The Updated SWM Handbook**

- Overview of the recent update effort
- Brief tour through the updated SWM Handbook

Updated Virginia Stormwater Handbook – Construction Phase

- Virginia Pollutant Discharge Elimination System (VPDES) authorities
- Erosion and sediment control plan
- Stormwater management plan and BMP selection
 - Sizing criteria
 - Designing with maintenance in mind
- VPDES construction permitting
- Stormwater Pollution Prevention Plans (SWPPPs)

Updated Virginia Stormwater Handbook – Post-Construction Phase

- Stormwater best management practices (BMPs) implementation and long-term operations and maintenance
- Impact of runoff reduction method
- Green infrastructure practices and BMPs
 - Preservation of natural features and conservation design
 - Reducing impervious cover
 - Rain gardens
 - Green roofs
 - Stormwater planters
 - Rain barrels/cisterns
 - Pervious pavement
 - Conservation of natural areas
 - Detention/retention ponds
 - Riparian buffers and filter strips
 - Vegetated swales
 - Disconnected runoff
 - Stream daylighting

Climate Impacts on How We Manage Stormwater

- Atlas 14 rainfall data in design and sizing; MARISA projections; currently available alternatives
- Atlas 15 rainfall data updates; incorporation into the Stormwater Management Handbook

Developing Plans for Inspection, Maintenance, and Recordkeeping

- Facility inventory management; routine and non-routine inspection; documentation of conditions
- Facility recordkeeping; municipal recordkeeping

**Navigating Stormwater
Management in Virginia: 2025**
Live, Interactive Webinar - Friday, February 14, 2025

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**HalfMoon Education Inc.,
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Navigating Stormwater Management in Virginia: 2025

Live, Interactive Webinar - Friday, February 14, 2025



The webinar focuses on understanding and applying stormwater management principles in Virginia, covering the hydrologic cycle, historical context, regulatory frameworks, and updates to the Virginia Stormwater Management (SWM) Handbook. It emphasizes best practices, long-term maintenance, climate impact considerations, and strategies such as green infrastructure and runoff reduction to address construction and post-construction stormwater challenges.

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Webinar Information

Online - Friday, February 14, 2025	
Log into Webinar 8:00 - 8:30 am CDT	Break 11:45 am - 12:45 pm CDT
Morning Session 8:30 - 11:45 am CDT	Afternoon Session 12:45 - 5:00 pm CDT

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Faculty

Doug Moseley, III AICP, CFM, ENV SP
Mr. Moseley has 26 years of experience providing holistic, multi-objective watershed management planning services for regulatory compliance, infrastructure implementation and resilience, floodplain management, stormwater management, and public engagement. He has a background in program development and implementation for both water quality and quantity concerns for municipal, state, and federal clients across the United States. Mr. Moseley specializes in National Flood Insurance Program (NFIP) compliance, flood resilience planning, Community Rating System (CRS) application and program review, and on-site flood disaster assistance. He also brings extensive experience in stormwater management to clients, having managed numerous municipal National Pollutant Discharge Elimination System (NPDES) regulatory, planning, and implementation projects in support of Municipal Separate Storm Sewer System (MS4) permit applications and compliance plans. Mr. Moseley’s experience also includes stormwater program financing feasibility and implementation, including establishment of stormwater utilities in multiple states. He presents at - and facilitates - public and advisory committee meetings. Of note, Mr. Moseley has served on four different technical advisory committees addressing stormwater management regulation, practice, and process in Virginia, including the most recent Stormwater Handbook update in 2023. He holds a bachelor’s degree in American Government and a master’s degree in Urban & Environmental Planning from the University of Virginia. Mr. Moseley is a member of the American Institute of Certified Planners (AICP); he is a Certified Floodplain Manager (CFM) through the Association of State Floodplain Managers; and he is an Envision Sustainability Professional (ENV SP) through the Institute for Sustainable Infrastructure.

Additional Learning

- Commercial and High-End Residential Deck Design and Construction**
- Friday, January 10, 2025 | 9:00 am - 4:00 pm CST
- Soil Mechanics, Bearing Capacity and Slope Stabilization**
- Friday, January 10, 2025 | 8:30 am - 4:30 pm CST
- Retaining Wall Design and Construction**
- Monday, January 13, 2025 | 9:00 am - 4:00 pm CST
- Practical Site Design and Engineering**
- Wednesday, January 15, 2025 | 9:00 am - 4:30 pm CST
- Concrete Pavement: From the Ground Up**
- Thursday, January 16, 2025 | 1:00 - 3:00 pm CST
- The Tree Course**
- Thursday, January 16, 2025 | 9:00 am - 4:30 pm CST
- Deep Dive into Equity in Land Use Planning and Zoning**
- Friday, January 17, 2025 | 9:30 am - 12:30 pm CST
- Deep Dive into Implementing Urban Grazing**
- Wednesday, January 22, 2025 | 2:00 - 4:00 pm CST

Credit Information

This webinar is open to the public and is designed to qualify for 8.0 PDHs for professional engineers, 8.0 HSW continuing education hours for licensed architects, and 8.0 HSW continuing education hours for landscape architects in Virginia. The Virginia Board for APELSCIDLA does not pre-approve continuing education courses; credit calculation is based on 50-minute contact hours.

The American Institute of Architects Continuing Education System has approved this course for 7.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

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The Association of State Floodplain Managers has approved this course for 7.0 CECs for floodplain managers.

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Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

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- How to Use Permeable Pavements**
- Wednesday, January 22, 2025 | 10:00 am - 1:00 pm CST
- NPDES Stormwater Management Program 2025**
- Wednesday, January 22, 2025 | 9:00 am - 4:30 pm CST
- Road to Net Zero Water: Alternate Sources for Irrigation**
- Thursday, January 23, 2025 | 2:00 - 4:00 CST
- Fire-Resistant Landscapes and Construction**
- Thursday, January 23, 2025 | 10:00 am - 5:00 pm CST
- Designing Accessible Pedestrian Facilities under ADA, IBC and PROWAG**
- Friday, January 24, 2025 | 8:30 am - 4:00 pm CST
- Building EV Infrastructure in the US**
- Tuesday, January 28, 2025 | 9:00 am - 4:00 pm CST
- Rain Garden Design, Construction and Maintenance**
- Tuesday, January 28, 2025 | 9:00 am - 4:00 pm CST

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