

Agenda

Identifying Wetlands

- Presence of wetland vegetation
- Identification of wetland soils
- Importance of underlying wetland hydrology

L. Herrera

Understanding Federal and Michigan Wetlands Laws and Enforcement

- The Federal Clean Water Act
- The Endangered Species Act
- Natural Resources and Environmental Protection Act
- Right to Farm Act
- Implementing/enforcing agencies
 - U.S. Army Corps of Engineers
 - U.S. Environmental Protection Agency
 - U.S. Department of Agriculture
 - Michigan Department of Environmental Quality
 - Local municipal regulation

L. Herrera

Wetlands Permitting Process

- Wetlands determinations and delineations
- Determining applicability of regulations
- Wetland permitting and certification processes
 - Notice provisions
 - Review process
 - Mitigation/compensation requirements
- Appeals process

M. Koerner

Wetland Preservation, Restoration, Creation and Enhancement

B. Majka

- Understanding the importance of wetlands
 - Flood storage and conveyance
 - Pollution control and carbon storage
 - Erosion control
 - Wildlife habitat
 - Recreation
- Wetland preservation strategies and techniques
- Wetland restoration
 - Preference for onsite and in-kind restoration
 - Hydrological considerations
 - Restoration techniques
- Wetland creation
 - Methods, benefits and drawbacks
- Wetland enhancement
 - Purposes and techniques
- Examples of inland and coastal wetland restoration, creation, enhancement, and preservation projects

Michigan Wetlands Law and Compliance

Live, Interactive Webinar - Wednesday, July 28, 2021

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Learning Objectives

You'll be able to:

Describe how vegetation, soils and hydrology are used to identify wetlands.

Comply with federal regulations including the Federal Clean Water Act, the Endangered Species Act and the Right to Farm Act.

Discuss the wetland delineation process, and participate in the wetlands permitting process.

Explore important environmental services provided by wetlands, including flood storage, pollution control, and erosion control.

Study the processes for wetland preservation, restoration creation and enhancement.

Evaluate examples of inland and coastal restoration, creation, enhancement and preservation projects.



HalfMoon Education Online Learning

Michigan Wetlands Law and Compliance

Live, Interactive Webinar - Wednesday, July 28, 2021



Identify wetlands using vegetation, soils and hydrology

Comply with Federal and Michigan wetlands laws and regulations

Participate in the wetlands permitting process

Describe the important environmental services provided by wetlands

Learn how wetlands are preserved, created, restored and enhanced

Explore examples of inland and coastal wetlands

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Faculty

Larissa Herrera, PWS *Holland Engineering – Southfield*
Ms. Herrera is an aquatic biologist with over ten years of experience in natural resource assessment, including wetland delineations, environmental permitting, stream assessments, mussel/macroinvertebrate surveys and identification, threatened and endangered species surveys, and wetland restoration. Growing up, Ms. Herrera had a passion for biology and the environment, which led her to the University of Michigan, where she graduated with a B.S. degree in Biology and Program in the Environment (PitE). To further her education, she obtained an M.S. degree in Water Resource Science from the University of Minnesota Duluth. Ms. Herrera has been a key staff member in Holland Engineering’s Environmental Group on projects throughout the Midwest. She holds a USFWS permit to survey and handle federally listed mussel species. She appreciates all mussels, but her favorite species are the spectaclecase and snuffbox.

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Mark Koerner *Attorney with Foster Swift – Lansing*
Mr. Koerner practices in the area of municipal law and commercial, construction, business and municipal litigation. Mr. Koerner has provided legal counsel for numerous county drain projects concerning establishment, construction and maintenance of both county and inter-county drains including wetland delineation and remediation. He has extensive experience in dealing with the Michigan Department of Environment, Great Lakes & Energy involving issues from ground water to permitting to compliance. Mr. Koerner further acts as general counsel to transit agencies around the state. Mr. Koerner received his BA degree in Political Theory And Constitutional Democracy from Michigan State University, and his JD and LL.M. degrees from the John Marshall Law School in Chicago. He is a member of the State Bar of Michigan, the Illinois State Bar Association, and the US District Courts for Michigan and Illinois.

Brian R. Majka, CERP *GEI Consultants of Michigan, P.C. – Allendale*
Mr. Majka is a professional restoration ecologist with extensive experience in ecological restoration, design and implementation of wetland construction, soft shoreline engineering, prairie planting, natural areas management and best management practice (BMP) design projects with more than 19 years of experience throughout the country. Mr. Majka has a B.S. degree in Natural Resources and Environmental Science from Purdue University and is responsible for project management of ecological restoration design and implementation projects for GEI.

Additional Learning

Stormwater Best Management Practices
- Thurs, July 1, 2021 | 8:30 am - 5:00 pm CDT

Shallow Foundation Design, Construction and Repair
- Tues, July 6, 2021 | 8:30 am - 5:00 pm CDT

Estimating Plumbing and HVAC Costs
- Fri, July 9, 2021 | 8:30 am - 4:30 pm CDT

Erosion and Sediment Control
- Tues, July 13, 2021 | 8:30 am - 5:00 pm CDT

Retaining Wall Design and Slope Stabilization Techniques
- Tues, July 13, 2021 | 11:00 am - 2:15 pm CDT
- Wed, July 14, 2021 | 11:00 am - 2:15 pm CDT

Street Maintenance and Traffic Operations
- Thurs, July 15, 2021 | 11:00 am - 2:30 pm CDT
- Fri, July 16, 2021 | 11:00 am - 2:30 pm CDT

Managing Construction with AIA Document A201: General Conditions
- Tues, July 20, 2021 | 8:30 am - 4:00 pm

Deep Excavations
- Wed, July 21, 2021 | 8:30 am - 4:30 pm CDT

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