



Presentation Outline
BEPA-NEPA 3rd Annual Environmental Professionals' Conference
February 26, 2019 Pelham, Alabama

Presentation Title:

Floodplain and Stormwater Management Tools to Support Hazard Mitigation

Presenter

Maggie P. Weems, P.E.

Senior Environmental Engineer / Water Team Lead

Wood Environment & Infrastructure Solutions, Inc.; Birmingham, Alabama

Abstract

Hazard Mitigation is defined by FEMA as any action taken to reduce or eliminate long term risk to people and property from natural disasters. There are numerous tools available to engineers, public officials, and the affected communities that can support hazard mitigation activities. These tools are developed during the flood insurance rate map process or are implemented as communities update their stormwater management programs. This presentation will cover why floodplain and stormwater management is important in today's changing climate (culture, weather, and conversation), how best to utilize the available tools, and a brief status update on floodplain and stormwater management across Alabama.

Outline

1. What is hazard mitigation?
 - a. How it relates to floodplain and stormwater management
2. Why is floodplain and stormwater management important?
 - a. Changing climate, conversation, and culture
3. What is working against us?
 - a. More prescriptive regulatory requirements, aging infrastructure, funding challenges, urbanization
4. What is working for us?
 - a. Floodplain tools
 - i. Flood Risk Database developed during floodplain map updates
 - ii. www.alabamaflood.com and FEMA Flood Map Service Center
 1. Live demonstration
 - b. Stormwater tools
 - i. Low-impact development strategies and green infrastructure
 - ii. Stormwater ordinances and associated design changes
5. What is the status of floodplain mapping updates across Alabama?
6. How are municipalities across Alabama better managing stormwater?
 - a. Auburn
 - b. Mobile
 - c. Tuscaloosa
 - d. Birmingham

